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Geographical Information Systems is a computer system used to capture, store, analyze and display information related to positions on the Earth's surface. It has the ability to show multiple types of information on multiple geographical locations in a single map, enabling users to assess patterns and relationships between different information points, a crucial component for multiple aspects of modern life and industry. This 3-volumes reference provides an up-to date account of this growing discipline through in-depth reviews authored by leading experts in the field. VOLUME EDITORS Thomas J. Cova The University of Utah, Salt Lake City, UT, United States Ming-Hsiang Tsou San Diego State University, San Diego, CA, United States Georg Bareth University of Cologne, Cologne, Germany Chunqiao Song University of California, Los Angeles, CA, United States Yan Song University of North Carolina at Chapel Hill, Chapel Hill, NC, United States Kai Cao National University of Singapore, Singapore Elisabete A. Silva University of Cambridge, Cambridge, United Kingdom Covers a rapidly expanding discipline, providing readers with a detailed overview of all aspects of geographic information systems, principles and applications Emphasizes the practical, socioeconomic applications of GIS Provides readers with a reliable, one-stop comprehensive guide, saving them time in searching for the information they need from different sources

Web development has grown to become vital in shaping how humans interact, work, learn, and consume. Practical Web Development provides you with a roadmap of web development today, giving you the tools you need and the guidance to keep you crea-

tive and productive in a world of disruption and innovation. Beginning with the structure of the Web and the principles of building basic websites with HTML, you will learn about CSS, JavaScript, and PHP, before taking a closer look at some of the leading technologies used to build the modern Web. You will integrate jQuery, Ajax, and JSON into your projects before moving on to the latest tools and techniques in responsive web design, including Zurb Foundation or Bootstrap, to help you meet the challenges of developing for multiple devices, and explore how Node.js offers a powerful solution to server-side application development. This book is for anyone that wants to get to grips with the broader picture of web development today.

This book describes the trends, challenges and solutions in computing use for scientific research and development within different domains in Africa, such as health, agriculture, environment, economy, energy, education and engineering. The benefits expected are discussed by a number of recognized, domain-specific experts, with a common theme being computing as solution enabler. This book is the first document providing such a representative up-to-date view on this topic at the continent level.

From an idea to a prototype - a complete guide for web development with the Django framework About This Book Explore the best practices to develop applications of a superior quality with Django framework Unravel the common problems of web development in Django This course teaches you major Django functions and will help you improve your skills by developing models, forms, views, and templates Experience the challenges of working on an end-to-end social network project Who This Book Is For Web developers who want to use modern Python-based web frame-

works like Django to build powerful web applications. The course is mostly self-contained and introduces web development with Python to a reader who is familiar with web development concepts and can help him become an expert in this trade. It's intended for all levels of web developers, both students and practitioners from novice to experts. What You Will Learn Use Django models to store information in the database and generate queries to access a database across models Quickly develop web pages to create, read, update, and delete data from the model using class-based views Generate very maintainable forms with Django Import data from local sources and external web services as well as exporting your data to third parties Deep dive into various aspects of Django from models and views to testing and deployment Familiarize yourself with the various nuances of web development such as browser attacks and databases In Detail Data science is hot right now, and the need for multitalented developers is greater than ever before. A basic grounding in building apps with a framework as minimalistic, powerful, and easy-to-learn as Django will be a useful skill to launch your career as an entrepreneur or web developer. Django is a web framework that was designed to strike a balance between rapid web development and high performance. This course will take you on a journey to become an efficient web developer thoroughly understanding the key concepts of Django framework. This learning path is divided into three modules. The course begins with basic concepts of the Django framework. The first module, Django Essentials, is like a practical guide, filled with many real-world examples to build highly effective Django web application. After getting familiar with core concepts of Django, it's time to practice your learning from the

first module with the help of over 90 recipes available in this module. In the second module, Web Development with Django Cookbook, you'll learn varying complexities to help you create multilingual, responsive, and scalable websites with Django. By the end of this module, you will have a good understanding of the new features added to Django 1.8 and be an expert at web development processes. The next step is to discover the latest best practices and idioms in this rapidly evolving Django framework. This is what you'll be learning in our third module, Django Design Patterns and Best Practices. This module will teach you common design patterns to develop better Django code. By the end of the module, you will be able to leverage the Django framework to develop a fully functional web application with minimal effort. Style and approach This course includes all the resources that will help you jump into the web development field with Django and learn how to make scalable and robust web applications. The aim is to create a smooth learning path that will teach you how to get started with the powerful Django framework and perform various web development techniques in depth. Through this comprehensive course, you'll learn web development with Django from scratch to finish!

Our Architect Team has created this Book with Great care and most of the latest technologies are covered One can learn from the questions itself as they are well detailed. THESE CHALLENGES ARE NOT A COLLECTION OF REGULAR INTERVIEW QUESTIONS SCRAPPED FROM WEB Interview Questions from the below Topics.

1. Blockchain
2. Microservices
3. Docker
4. Kubernetes
5. Reactive
6. Spring Boot
7. Apachespark
8. AI-ML-DL
9. JHipster
10. Advanced JDBC
11. Mysql
12. JShell
13. Appium
14. Elastic search
15. Mockito
16. PowerMock
17. Regex
18. MongoDB
19. SQL
20. Redis
21. Generic
22. JDK
23. Scrum - Agile
24. Quantum
25. Serverless
26. Security
27. Android
28. Selenium
29. JWT
30. Hacking
31. Capacity Planning
32. Postman
33. Progressive
34. BDD
35. Swagger
36. Jmeter
37. Logging
38. Concurrency
39. Linux
40. RaspberryPI
41. Arduino
42. Terms
43. Charts
44. Tomcat
45. Kotlin
46. Architectures
47. Hibernate
48. GIT
49. Web Development
50. Softwares and Libraries
51. AWS
52. AZURE Functions
53. Maven
54. HyperLedger
55. HTTP/2
56. WireShark
57. IOT
58. ELK
59. Graffana
60. Wildfly
61. Software Design
62. Jenkins
63. SonarQube
64. Patterns AntiPatterns
65. Famous and Useful Softwares
66. FAAS
67. Quartz

Get your PHP application from conception to deployment by leveraging CouchDB's robust features with this book and ebook.

This book constitutes revised selected papers from the 26th Argentine Congress on Computer Science, CACIC 2020, held in San Justo, Buenos Aires, Argentina in October 2020. Due to the COVID-19 pandemic the conference was held in a virtual mode. The 21 full papers and 3 short papers presented in this volume were carefully reviewed and selected from a total of 118 submissions. They were organized in topical sections named: intelligent agents and systems; distributed and parallel processing; computer technology applied to education; graphic computation, images and visualization; software engineering; databases and data mining; hardware architectures, networks, and operating systems; innovation in software systems; signal processing and real-time systems; innovation in computer science education; computer security; and digital governance and smart cities.

This volume of Advances in Intelligent and Soft Computing contains accepted papers presented at the 8th International Conference on Computational Intelligence in Security for Information Systems (CISIS 2015) and the 6th International Conference on European Transnational Education (ICEUTE 2015). These conferences were held in the beautiful and historic city of Burgos (Spain), in June 2015. The aim of the 8th CISIS conference is to offer a meeting opportunity for academic and industry-related researchers belonging to the various, vast communities of Computational Intelligence, Information Security, and Data Mining. The need for intelligent, flexible behaviour by large, complex systems, especially in mission-critical domains, is intended to be the catalyst and the aggregation stimulus for the overall event. After a thorough peer-review process, the CISIS 2015 International Program Committee selected 43 papers, written by authors from 16 different countries. In the case of 6th ICEUTE conference, the International Program Committee selected 12 papers (from 7 countries). These papers are published in present conference proceedings, achieving an acceptance rate of about 39%. The selection of papers was extremely rigorous in order to maintain the high quality of the conference and we would like to thank the members of the Program Committees for their hard work in the reviewing process. This is a crucial process to the creation of a high standard conference and the CISIS and ICEUTE conferences would not exist without their help.

This book presents the latest research on Software Engineering

Frameworks for the Cloud Computing Paradigm, drawn from an international selection of researchers and practitioners. The book offers both a discussion of relevant software engineering approaches and practical guidance on enterprise-wide software deployment in the cloud environment, together with real-world case studies. Features: presents the state of the art in software engineering approaches for developing cloud-suitable applications; discusses the impact of the cloud computing paradigm on software engineering; offers guidance and best practices for students and practitioners; examines the stages of the software development lifecycle, with a focus on the requirements engineering and testing of cloud-based applications; reviews the efficiency and performance of cloud-based applications; explores feature-driven and cloud-aided software design; provides relevant theoretical frameworks, practical approaches and future research directions.

In this fast-paced book on the Docker open standards platform for developing, packaging and running portable distributed applications, Deepak Vorhadiscusses how to build, ship and run applications on any platform such as a PC, the cloud, data center or a virtual machine. He describes how to install and create Docker images. and the advantages off Docker containers. The remainder of the book is devoted to discussing using Docker with important software solutions. He begins by discussing using Docker with a traditional RDBMS using Oracle and MySQL. Next he moves on to NoSQL with chapter on MongoDB Cassandra, and Couchbase. Then he addresses the use of Docker in the Hadoop ecosystem with complete chapters on utilizing not only Hadoop, but Hive, HBase, Sqoop, Kafka, Solr and Spark. What You Will Learn How to install a Docker image How to create a Docker container How to run an Application in a Docker Container Use Docker with Apache Hadoop Ecosystem Use Docker with NoSQL Databases Use Docker with RDBMS Who This Book Is For Apache Hadoop Developers. Database developers. NoSQL Developers.

"It's not easy to find such a generous book on big data and databases. Fortunately, this book is the one." Feng Yu. Computing Reviews. June 28, 2016. This is a book for enterprise architects, database administrators, and developers who need to understand the latest developments in database technologies. It is the book to help you choose the correct database technology at a time when concepts such as Big Data, NoSQL and NewSQL are making what used to be an easy choice into a complex decision with sig-

nificant implications. The relational database (RDBMS) model completely dominated database technology for over 20 years. Today this "one size fits all" stability has been disrupted by a relatively recent explosion of new database technologies. These paradigm-busting technologies are powering the "Big Data" and "NoSQL" revolutions, as well as forcing fundamental changes in databases across the board. Deciding to use a relational database was once truly a no-brainer, and the various commercial relational databases competed on price, performance, reliability, and ease of use rather than on fundamental architectures. Today we are faced with choices between radically different database technologies. Choosing the right database today is a complex undertaking, with serious economic and technological consequences. Next Generation Databases demystifies today's new database technologies. The book describes what each technology was designed to solve. It shows how each technology can be used to solve real world application and business problems. Most importantly, this book highlights the architectural differences between technologies that are the critical factors to consider when choosing a database platform for new and upcoming projects. Introduces the new technologies that have revolutionized the database landscape Describes how each technology can be used to solve specific application or business challenges Reviews the most popular new wave databases and how they use these new database technologies

The Web Development Glossary is probably the largest of its kind. With more than 2,000 terms and explanations it acquaints and reunites you with the major standards and concepts of the Web, with HTML, CSS, JavaScript, accessibility, security, performance, code quality, internationalization, localization, editors and tooling and more. The glossary then goes beyond web development, touching on computer science, design, typography, usability and user experience, information as well as project management, other disciplines of interest and relevance to the modern developer. It goes beyond, inspiring the curiosity to learn more about the Web and the people creating and using it. And still it is a glossary, of a couple of thousand terms for developers, leaning on (and giving back to) Wikipedia and the MDN Web Docs. → This is the book if you choose to extend and validate your web and software development knowledge.

Imagine what you could do if scalability wasn't a problem. With this hands-on guide, you'll learn how the Cassandra database ma-

agement system handles hundreds of terabytes of data while remaining highly available across multiple data centers. This expanded second edition—updated for Cassandra 3.0—provides the technical details and practical examples you need to put this database to work in a production environment. Authors Jeff Carpenter and Eben Hewitt demonstrate the advantages of Cassandra's non-relational design, with special attention to data modeling. If you're a developer, DBA, or application architect looking to solve a database scaling issue or future-proof your application, this guide helps you harness Cassandra's speed and flexibility. Understand Cassandra's distributed and decentralized structure Use the Cassandra Query Language (CQL) and cqlsh—the CQL shell Create a working data model and compare it with an equivalent relational model Develop sample applications using client drivers for languages including Java, Python, and Node.js Explore cluster topology and learn how nodes exchange data Maintain a high level of performance in your cluster Deploy Cassandra on site, in the Cloud, or with Docker Integrate Cassandra with Spark, Hadoop, Elasticsearch, Solr, and Lucene

Apache Cassandra is the most commonly used NoSQL database written in Java and is renowned in the industry as the only NoSQL solution that can accommodate the complex requirements of today's modern line-of-business applications. Cassandra is the technology of choice for such data-driven organizations as Netflix, eBay, Constant Contact, Comcast, and scores of others. In NOSQL WEB DEVELOPMENT WITH APACHE CASSANDRA, you will learn about all aspects of using Cassandra in web applications—including accessing the Cassandra database using the common programming/scripting languages Java, PHP, Ruby, and JavaScript. Master web development using Apache Cassandra with the help of NOSQL WEB DEVELOPMENT WITH APACHE CASSANDRA.

Wield the power of Python, React, and MongoDB to build web and data applications quickly and broaden your web development horizons Key Features Learn how to build web applications without having to know the intricacies of the components Build full stack projects without compromising on development speed and app performance Prepare yourself for the diverse world of web development, analytics, and data visualization Book Description If you need to develop web applications quickly, where do you turn? Enter the FARM stack. The FARM stack combines the power of the Python ecosystem with REST and MongoDB and makes building

web applications easy and fast. This book is a fast-paced, concise, and hands-on beginner's guide that will equip you with the skills you need to quickly build web applications by diving just deep enough into the intricacies of the stack's components. The book quickly introduces each element of the stack and then helps you merge them to build a medium-sized web application. You'll set up a document store with MongoDB, build a simple API with FastAPI, and create an application with React. Security is crucial on the web, so you'll learn about authentication and authorization with JSON Web Tokens. You'll also understand how to optimize images, cache responses with Redis, and add additional features to your application as well as explore tips, tricks, and best practices to make your development experience a breeze. Before you know it, you'll be deploying the application to different platforms. By the end of this book, you will have built a couple of functional applications efficiently and will have the springboard you need to delve into diverse and more specialized domains. What you will learn Discover the flexibility of the FARM stack Implement complete JWT authentication with FastAPI Explore the various Python drivers for MongoDB Discover the problems that React libraries solve Build simple and medium web applications with the FARM stack Dive into server-side rendering with Next.js Deploy your app with Heroku, Vercel, Ubuntu Server and Netlify Understand how to deploy and cache a FastAPI backend Who this book is for This book is for web developers and analysts who want to include the power of a modern asynchronous Python framework, a flexible data store and a powerful UI library with the combination of two of the most important programming languages today in their web development toolkit. Beginners in the field of information presentation will also find this book helpful. You must have a beginner-level understanding of Python, JavaScript, and HTML and CSS to get the most out of this book.

Discover how graph algorithms can help you leverage the relationships within your data to develop more intelligent solutions and enhance your machine learning models. You'll learn how graph analytics are uniquely suited to unfold complex structures and reveal difficult-to-find patterns lurking in your data. Whether you are trying to build dynamic network models or forecast real-world behavior, this book illustrates how graph algorithms deliver value—from finding vulnerabilities and bottlenecks to detecting communities and improving machine learning predictions. This practi-

cal book walks you through hands-on examples of how to use graph algorithms in Apache Spark and Neo4j—two of the most common choices for graph analytics. Also included: sample code and tips for over 20 practical graph algorithms that cover optimal pathfinding, importance through centrality, and community detection. Learn how graph analytics vary from conventional statistical analysis Understand how classic graph algorithms work, and how they are applied Get guidance on which algorithms to use for different types of questions Explore algorithm examples with working code and sample datasets from Spark and Neo4j See how connected feature extraction can increase machine learning accuracy and precision Walk through creating an ML workflow for link prediction combining Neo4j and Spark

What would happen if you optimized a data store for the operations application developers actually use? You'd arrive at MongoDB, the reliable document-oriented database. With this concise guide, you'll learn how to build elegant database applications with MongoDB and PHP. Written by the Chief Solutions Architect at 10gen—the company that develops and supports this open source database—this book takes you through MongoDB basics such as queries, read-write operations, and administration, and then dives into MapReduce, sharding, and other advanced topics. Get out of the relational database rut, and take advantage of a high-performing system optimized for operations and scale. Learn step-by-step the tools you need to build PHP applications with MongoDB Perform Create, Read, Update, and Delete (CRUD) operations, and learn how to perform queries to retrieve data Administer your database, and access and manipulate data with the MongoDB Shell Use functions to work with sets, arrays, and multiple documents to perform synchronous, asynchronous, and atomic operations Discover PHP's community tools and libraries, and why they're valuable Work with regular expressions, aggregation, MapReduce, replication, and sharding

A Deep Dive into NoSQL Databases: The Use Cases and Applications, Volume 109, the latest release in the Advances in Computers series first published in 1960, presents detailed coverage of innovations in computer hardware, software, theory, design and applications. In addition, it provides contributors with a medium in which they can explore their subjects in greater depth and breadth. This update includes sections on NoSQL and NewSQL databases for big data analytics and distributed computing,

NewSQL databases and scalable in-memory analytics, NoSQL web crawler application, NoSQL Security, a Comparative Study of different In-Memory (No/New)SQL Databases, NoSQL Hands On-4 NoSQLs, the Hadoop Ecosystem, and more. Provides a very comprehensive, yet compact, book on the popular domain of NoSQL databases for IT professionals, practitioners and professors Articulates and accentuates big data analytics and how it gets simplified and streamlined by NoSQL database systems Sets a stimulating foundation with all the relevant details for NoSQL database researchers, developers and administrators

Build dynamic web applications with Express, a key component of the Node/JavaScript development stack. In this updated edition, author Ethan Brown teaches you Express fundamentals by walking you through the development of an example application. This hands-on guide covers everything from server-side rendering to API development suitable for use in single-page apps (SPAs). Express strikes a balance between a robust framework and no framework at all, allowing you a free hand in your architecture choices. Frontend and backend engineers familiar with JavaScript will also learn best practices for building multipage and hybrid web apps with Express. Pick up this book and discover new ways to look at web development. Create a templating system for rendering dynamic data Dive into request and response objects, middleware, and URL routing Simulate a production environment for testing Persist data in document databases with MongoDB and relational databases with PostgreSQL Make your resources available to other programs with APIs Build secure apps with authentication, authorization, and HTTPS Integrate with social media, geolocation, and more Implement a plan for launching and maintaining your app Learn critical debugging skills

This guide is an ideal learning tool and reference for Apache Pig, the programming language that helps programmers describe and run large data projects on Hadoop. With Pig, they can analyze data without having to create a full-fledged application--making it easy for them to experiment with new data sets.

Build Modern Web Apps with JakartaEE, Jmoordb, and Vaadins Key Features ● Learn about the Java Enterprise Edition/Jakarta Enterprise Edition specifications. ● Learn how to create applications with frameworks such as Java Server Faces, Eclipse krazo and Vaadin. ● Get familiar with NoSQL databases and learn how to create Java applications that interact using Jakarta NoSQL and Jmo-

ordb. ● Learn how to test and secure your application. ● Learn about Microprofile and how to create microservices with java. Description For many years, Java EE has been an important platform for mission-critical enterprise applications. To accelerate the development of enterprise applications for a cloud-native world, leading software vendors collaborated to transfer Java EE technologies to the Eclipse Foundation, where they will evolve under the Jakarta EE brand. This book will be your comprehensive guide to creating Jakarta EE applications and microservices with Microprofile. The book begins with an introduction to Jakarta EE and quickly goes on to teach you about the various databases and their advantages. After this, you will explore the JNoSQL and Jmoordb frameworks to understand how to build Jakarta EE applications with NoSQL databases. Moving forward, you'll explore Eclipse MicroProfile and see how it helps build microservices with Java. Also, you will learn about various development applications such as Java Server Faces, Eclipse Krazos, PrimeFaces, Vaadin, and understand how to integrate them with your backend. Towards the end, you will learn about security, testing, and understanding continuous integration. What will you learn ● Learn how to use the Jmoordb framework for Jakarta EE applications. ● Optimize Enterprise Java for microservices architecture using Eclipse MicroProfile. ● Create Web applications using Java Server Faces. ● Building a modern web application using Vaadin. ● Learn how to implement security using IdentityStore and JWT. ● Create CI/CD pipelines for Jakarta EE applications. Who this book is for This book is for developers with no previous experience in creating business applications with Java and for those who want to know about APIs and new frameworks for the development of cloud-oriented applications. Table of Contents 1. Jakarta EE Platform 2. NoSQL 3. Jakarta NOSQL 4. Understanding JMoordb 5. Exploring Microprofile 6. Java Server Faces 7. Vaadin 8. Integration Vaadin, JMoordb and NoSQL 9. Eclipse Krazos and Security of Microservices 10. Testing and Continuous Integration

Learn the fundamental foundations and concepts of the Apache HBase (NoSQL) open source database. It covers the HBase data model, architecture, schema design, API, and administration. Apache HBase is the database for the Apache Hadoop framework. HBase is a column family based NoSQL database that provides a flexible schema model. What You'll Learn Work with the core concepts of HBase Discover the HBase data model, schema design,

and architecture Use the HBase API and administration Who This Book Is For Apache HBase (NoSQL) database users, designers, developers, and admins.

See a Mesos-based big data stack created and the components used. You will use currently available Apache full and incubating systems. The components are introduced by example and you learn how they work together. In the Complete Guide to Open Source Big Data Stack, the author begins by creating a private cloud and then installs and examines Apache Brooklyn. After that, he uses each chapter to introduce one piece of the big data stack—sharing how to source the software and how to install it. You learn by simple example, step by step and chapter by chapter, as a real big data stack is created. The book concentrates on Apache-based systems and shares detailed examples of cloud storage, release management, resource management, processing, queuing, frameworks, data visualization, and more. What You'll Learn Install a private cloud onto the local cluster using Apache cloud stack Source, install, and configure Apache: Brooklyn, Mesos, Kafka, and Zeppelin See how Brooklyn can be used to install Mule ESB on a cluster and Cassandra in the cloud Install and use DCOS for big data processing Use Apache Spark for big data stack data processing Who This Book Is For Developers, architects, IT project managers, database administrators, and others charged with developing or supporting a big data system. It is also for anyone interested in Hadoop or big data, and those experiencing problems with data size.

Node.js, MongoDB and Angular Web Development The definitive guide to using the MEAN stack to build web applications Node.js is a leading server-side programming environment, MongoDB is the most popular NoSQL database, and Angular is the leading framework for MVC-based front-end development. Together, they provide an easy-to-implement, fully integrated web development stack that allows web programmers to create high-performance sites and applications built completely in JavaScript, from server to client. Updated for Angular 2, Angular 4, and subsequent versions, this new edition of Node.js, MongoDB and Angular Web Development shows you how to integrate these three technologies into complete working solutions. It begins with concise, crystal-clear tutorials on each technology and then quickly moves on to building common web applications. You'll learn how to use Node.js and MongoDB to build more scalable, high-performance

sites, how to leverage Angular's innovative MVC approach to structure more effective pages and applications, and how to use all three together to deliver outstanding next-generation Web solutions. Implement a highly scalable and dynamic web server using Node.js and Express Implement a MongoDB data store for your web applications Access and interact with MongoDB from Node.js JavaScript code Learn the basics of TypeScript Define custom Angular directives that extend the HTML language Build server-side web services in JavaScript Implement client-side services that can interact with the Node.js web server Build dynamic browser views that provide rich user interaction Add authenticated user accounts and nested comment components to your web applications and pages Contents at a Glance Part I: Getting Started 1 Introducing the Node.js-to-Angular Stack 2 JavaScript Primer Part II: Learning Node.js 3 Getting Started with Node.js 4 Using Events, Listeners, Timers, and Callbacks in Node.js 5 Handling Data I/O in Node.js 6 Accessing the File System from Node.js 7 Implementing HTTP Services in Node.js 8 Implementing Socket Services in Node.js 9 Scaling Applications Using Multiple Processors in Node.js 10 Using Additional Node.js Modules Part III: Learning MongoDB 11 Understanding NoSQL and MongoDB 12 Getting Started with MongoDB 13 Getting Started with MongoDB and Node.js 14 Manipulating MongoDB Documents from Node.js 15 Accessing MongoDB from Node.js 16 Using Mongoose for Structured Schema and Validation 17 Advanced MongoDB Concepts Part IV: Using Express to Make Life Easier 18 Implementing Express in Node.js 19 Implementing Express Middleware Part V: Learning Angular 20 Jumping into TypeScript 21 Getting Started with Angular 22 Angular Components 23 Expressions 24 Data Binding 25 Built-in Directives Part VI: Advanced Angular 26 Custom Directives 27 Events and Change Detection 28 Implementing Angular Services in Web Applications 29 Creating Your Own Custom Angular Services 30 Having Fun with Angular

Over 170 advanced recipes to search, analyze, deploy, manage, and monitor data effectively with Elasticsearch 5.x About This Book Deploy and manage simple Elasticsearch nodes as well as complex cluster topologies Write native plugins to extend the functionalities of Elasticsearch 5.x to boost your business Packed with clear, step-by-step recipes to walk you through the capabilities of Elasticsearch 5.x Who This Book Is For If you are a developer who wants to get the most out of Elasticsearch for advanced

search and analytics, this is the book for you. Some understanding of JSON is expected. If you want to extend Elasticsearch, understanding of Java and related technologies is also required. What You Will Learn Choose the best Elasticsearch cloud topology to deploy and power it up with external plugins Develop tailored mapping to take full control of index steps Build complex queries through managing indices and documents Optimize search results through executing analytics aggregations Monitor the performance of the cluster and nodes Install Kibana to monitor cluster and extend Kibana for plugins Integrate Elasticsearch in Java, Scala, Python and Big Data applications In Detail Elasticsearch is a Lucene-based distributed search server that allows users to index and search unstructured content with petabytes of data. This book is your one-stop guide to master the complete Elasticsearch ecosystem. We'll guide you through comprehensive recipes on what's new in Elasticsearch 5.x, showing you how to create complex queries and analytics, and perform index mapping, aggregation, and scripting. Further on, you will explore the modules of Cluster and Node monitoring and see ways to back up and restore a snapshot of an index. You will understand how to install Kibana to monitor a cluster and also to extend Kibana for plugins. Finally, you will also see how you can integrate your Java, Scala, Python, and Big Data applications such as Apache Spark and Pig with Elasticsearch, and add enhanced functionalities with custom plugins. By the end of this book, you will have an in-depth knowledge of the implementation of the Elasticsearch architecture and will be able to manage data efficiently and effectively with Elasticsearch. Style and approach This book follows a problem-solution approach to effectively use and manage Elasticsearch. Each recipe focuses on a particular task at hand, and is explained in a very simple, easy to understand manner.

Annotation With the rise of Web 2.0, the need for a highly scalable database, capable of storing diverse user-generated content is increasing. MongoDB, an open-source, non-relational database has stepped up to meet this demand and is being used in some of the most popular websites in the world. MongoDB is one of the NoSQL databases which is gaining popularity for developing PHP Web 2.0 applications.PHP and MongoDB Web Development Beginners Guide is a fast-paced, hands-on guide to get started with web application development using PHP and MongoDB. The book follows a Code first, explain later approach, using practical exam-

ples in PHP to demonstrate unique features of MongoDB. It does not overwhelm you with information (or starve you of it), but gives you enough to get a solid practical grasp on the concepts. The book starts by introducing the underlying concepts of MongoDB. Each chapter contains practical examples in PHP that teach specific features of the database. The book teaches you to build a blogging application, handle user sessions and authentication, and perform aggregation with MapReduce. You will learn unique MongoDB features and solve interesting problems like real-time analytics, location-aware web apps etc. You will be guided to use MongoDB alongside MySQL to build a diverse data back-end. With its concise coverage of concepts and numerous practical examples, PHP and MongoDB Web Development Beginners Guide is the right choice for the PHP developer to get started with learning MongoDB.

Assemble the complete stack required to build a modern web app using MongoDB, Express, React, and Node. This book also covers many other complementary tools: React Router, GraphQL, React-Bootstrap, Babel, and Webpack. This new edition will use the latest version of React (React 16) and the latest React Router (React Router 4), which has a significantly different approach to routing compared to React Router 2 which was used in the first edition of the book. Though the primary focus of Pro MERN Stack is to equip you with all that is required to build a full-fledged web application, a large portion of the book will be devoted to React 16. The popular MEAN (MongoDB, Express, AngularJS, Node) stack introduced Single Page Apps (SPAs) and front-end Model-View-Controller (MVC) as new and efficient paradigms. Facebook's React is a technology that competes indirectly with AngularJS. It is not a full-fledged MVC framework. It is a JavaScript library for building user interfaces (in some sense the View part). Yet, it is possible to build a web app by replacing AngularJS with React - hence the term MERN stack. What You Will Learn Discover the features of React 16 to get the maximum out of this library Gain the basics of MongoDB, Express, and Node to build a web app Work with other libraries complementary to React, including React-Bootstrap, React Router, and GraphQL Use tools such as Babel and Webpack required to build JavaScript-based SPAs Tie all the components together to build a complete web app. Who This Book Is For Developers and architects who have prior experience in any web app stack other than the MERN stack will find the book useful to learn

about this modern stack. Prior knowledge of JavaScript, HTML, and CSS is required.

This book intends to expound the complete concept of Web in Theory, Web in Research and Web in Practice with the help of worked out examples for better understanding. Planned as a comprehensive reading for beginners and a reference for advanced learners, the book includes latest developments and approaches related to the World Wide Web.

The definitive guide to building JavaScript-based Web applications from server to browser Node.js, MongoDB, and AngularJS are three new web development technologies that together provide an easy to implement, fully integrated web development stack. Node.js is a leading server-side programming environment, MongoDB is the most popular NoSQL database, and AngularJS is quickly becoming the leading framework for MVC-based front-end development. Together they allow web programmers to create high-performance sites and applications built completely in JavaScript, from server to client. Node.js, MongoDB and AngularJS Web Development is a complete guide for web programmers who want to integrate these three technologies into full working solutions. It begins with concise, crystal-clear tutorials on each of the three technologies and then quickly moves on to building several common web applications. Readers will learn how to use Node.js and MongoDB to build more scalable, high-performance sites, how to leverage AngularJS's innovative MVC approach to structure more effective pages and applications, and how to use all three together to deliver outstanding next-generation Web solutions.

"Database programming and design are core competencies expected of every Java programmer. This code-oriented course moves you toward competency by providing a detailed overview of how to program for the two most common types of database systems used today: The traditional relational RDBMS systems (e.g. Oracle, SQL Server, and PostgreSQL) and the now popular non-relational NoSQL systems (e.g. Mongo DB and Apache Cassandra). Filled with hands-on action, you'll work with three databases: SQLite3 (relational), PostgreSQL (relational), and MongoDB (NoSQL) and three APIs: JDBC, JPA, and the Java API for MongoDB. In addition, the course also covers the basics of schema design and normalization in RDBMSes."--Resource description page.

This textbook provides an introduction to computer science theory, informatics best practice, and the standards and legislation

that apply to computing in a healthcare environment. It delivers an accessible discussion of databases (construction, interrogation and maintenance); networking (design and low-level application); programming (best practice rather than the specifics of any one language - design, maintenance, safety). It can be used to accompany the NHS Modernising Scientific Careers syllabus. It is also targeted towards those creating software rather than those using it, particularly computer scientists working in healthcare, specifically those in or close to the Physical Sciences, including radiotherapy, nuclear medicine, and equipment management and those working with genomics and health informatics.

Build Modern Web Apps with JakartaEE, Jmoordb, and VaadinsKey Features a- Learn about the Java Enterprise Edition/Jakarta Enterprise Edition specifications. a- Learn how to create applications with frameworks such as Java Server Faces, Eclipse Krazo and Vaadin. a- Get familiar with NoSQL databases and learn how to create Java applications that interact using Jakarta NoSQL and Jmoordb. a- Learn how to test and secure your application. a- Learn about Microprofile and how to create microservices with java. Description For many years, Java EE has been an important platform for mission-critical enterprise applications. To accelerate the development of enterprise applications for a cloud-native world, leading software vendors collaborated to transfer Java EE technologies to the Eclipse Foundation, where they will evolve under the Jakarta EE brand. This book will be your comprehensive guide to creating Jakarta EE applications and microservices with Microprofile. The book begins with an introduction to Jakarta EE and quickly goes on to teach you about the various databases and their advantages. After this, you will explore the JNoSQL and Jmoordb frameworks to understand how to build Jakarta EE applications with NoSQL databases. Moving forward, you'll explore Eclipse MicroProfile and see how it helps build microservices with Java. Also, you will learn about various development applications such as Java Server Faces, Eclipse Krazos, PrimeFaces, Vaadin, and understand how to integrate them with your backend. Towards the end, you will learn about security, testing, and understanding continuous integration. What will you learn a- Learn how to use the Jmoordb framework for Jakarta EE applications. a- Optimize Enterprise Java for microservices architecture using Eclipse MicroProfile. a- Create Web applications using Java Server Faces. a- Building a modern web application using Vaadin. a- Learn how to implement

security using IdentityStore and JWT.a- Create CI/CD pipelines for Jakarta EE applications. Who this book is for This book is for developers with no previous experience in creating business applications with Java and for those who want to know about APIs and new frameworks for the development of cloud-oriented applications. Table of Contents 1. Jakarta EE Platform 2. NoSQL 3. Jakarta NOSQL 4. Understanding JMoordb 5. Exploring Microprofile 6. Java Server Faces 7. Vaadin 8. Integration Vaadin, JMoordb and NoSQL 9. Eclipse Krazos and Security of Microservices 10. Testing and Continuous Integration About the Authors Aristides Villarreal Bravo lives in Panama, is a Java Developer, member of NetBeans Dream Teams since 2007, Jug Leaders. He is currently working on developing Java applications and with greater emphasis on technologies such as Java Enterprise Edition, Jakarta EE, Microprofile, and NoSQL databases. He has developed several plugins for Apache NetBeans IDE and is working on his Jmoordb project, a Java API for NoSQL. Your LinkedIn Profile:

<https://www.linkedin.com/in/aristides-villarreal-bravo-6258543/> Giovanni Mendoza Gonzalez is a senior backend developer in Java, lives in Colombia, B.S. in System Engineering from the Simon Bolivar University of Colombia with a specialization in Software Engineering from the North University of Barranquilla, Colombia. Certified on Vaadin 14 framework, professional and developer. Your LinkedIn Profile: <https://www.linkedin.com/in/gmendozag/Otavio> Goncalves de Santana is a passionate software engineer focused on Java technology. He has experience mainly in persistence polyglot and high-performance applications in finances, social media, and e-commerce. Otavio is a member of both Expert Groups and Expert Leader in several JSRs and JCP executive committee. Your LinkedIn Profile: <https://www.linkedin.com/in/otaviojava/>

The twenty-first century is a time of intensifying competition and progressive digitization. Individual employees, managers, and entire organizations are under increasing pressure to succeed. The questions facing us today are: What does success mean? Is success a matter of chance and luck or perhaps is success a category that can be planned and properly supported? Business Intelligence and Big Data: Drivers of Organizational Success examines how the success of an organization largely depends on the ability to anticipate and quickly respond to challenges from the market, customers, and other stakeholders. Success is also associated with the potential to process and analyze a variety of information

and the means to use modern information and communication technologies (ICTs). Success also requires creative behaviors and organizational cleverness from an organization. The book discusses business intelligence (BI) and Big Data (BD) issues in the context of modern management paradigms and organizational success. It presents a theoretically and empirically grounded investigation into BI and BD application in organizations and examines such issues as: Analysis and interpretation of the essence of BI and BD Decision support Potential areas of BI and BD utilization in organizations Factors determining success with using BI and BD The role of BI and BD in value creation for organizations Identifying barriers and constraints related to BI and BD design and implementation The book presents arguments and evidence confirming that BI and BD may be a trigger for making more effective decisions, improving business processes and business performance, and creating new business. The book proposes a comprehensive framework on how to design and use BI and BD to provide organizational success.

Start using Kubernetes in complex big data and enterprise applications, including Docker containers. Starting with installing Kubernetes on a single node, the book introduces Kubernetes with a simple Hello example and discusses using environment variables in Kubernetes. Next, Kubernetes Microservices with Docker discusses using Kubernetes with all major groups of technologies such as relational databases, NoSQL databases, and in the Apache Hadoop ecosystem. The book concludes with using multi container pods and installing Kubernetes on a multi node cluster. /div "a concise but clear introduction to containers, Docker and Kubernetes, using simple real-world examples to pass on the core concepts, via repetition, and is a very useful enabler." 10/10 Dave Hay MBCS CITP: review for BCS, The Chartered Institute for IT (<http://www.bcs.org/content/conWebDoc/58512>) What You Will Learn Install Kubernetes on a single node Set environment variables Create multi-container pods using Docker Use volumes Use Kubernetes with the Apache Hadoop ecosystem, NoSQL databases, and RDBMSs Install Kubernetes on a multi-node cluster Who This Book Is For Application developers including Apache Hadoop developers, database developers and NoSQL developers.

Healthcare transformation requires us to continually look at new and better ways to manage insights - both within and outside the organization today. Increasingly, the ability to glean and operatio-

nalize new insights efficiently as a byproduct of an organization's day-to-day operations is becoming vital to hospitals and health systems ability to survive and prosper. One of the long-standing challenges in healthcare informatics has been the ability to deal with the sheer variety and volume of disparate healthcare data and the increasing need to derive veracity and value out of it. Demystifying Big Data and Machine Learning for Healthcare investigates how healthcare organizations can leverage this tapestry of big data to discover new business value, use cases, and knowledge as well as how big data can be woven into pre-existing business intelligence and analytics efforts. This book focuses on teaching you how to: Develop skills needed to identify and demolish big-data myths Become an expert in separating hype from reality Understand the V's that matter in healthcare and why Harmonize the 4 C's across little and big data Choose data fidelity over data quality Learn how to apply the NRF Framework Master applied machine learning for healthcare Conduct a guided tour of learning algorithms Recognize and be prepared for the future of artificial intelligence in healthcare via best practices, feedback loops, and contextually intelligent agents (CIAs) The variety of data in healthcare spans multiple business workflows, formats (structured, un-, and semi-structured), integration at point of care/need, and integration with existing knowledge. In order to deal with these realities, the authors propose new approaches to creating a knowledge-driven learning organization-based on new and existing strategies, methods and technologies. This book will address the long-standing challenges in healthcare informatics and provide pragmatic recommendations on how to deal with them.

Advances in web technology and the proliferation of sensors and mobile devices connected to the internet have resulted in the generation of immense data sets available on the web that need to be represented, saved, and exchanged. Massive data can be managed effectively and efficiently to support various problem-solving and decision-making techniques. Emerging Technologies and Applications in Data Processing and Management is a critical scholarly publication that examines the importance of data management strategies that coincide with advancements in web technologies. Highlighting topics such as geospatial coverages, data analysis, and keyword query, this book is ideal for professionals, researchers, academicians, data analysts, web developers, and web engineers.

Pro MongoDB Development is about MongoDB, a NoSQL database based on the BSON (binary JSON) document model. The book discusses all aspects of using MongoDB in web applications: Java, PHP, Ruby, JavaScript are the most commonly used programming/scripting languages and the book discusses accessing MongoDB database with these languages. The book also discusses using Java EE frameworks Kundera and Spring Data with MongoDB. As NoSQL databases are commonly used with the Hadoop ecosystem the book also discusses using MongoDB with Apache Hive. Migration from other NoSQL databases (Apache Cassandra and Couchbase) and from relational databases (Oracle Database) is also discussed. What You'll Learn: How to use a Java client and MongoDB shell How to use MongoDB with PHP, Ruby, and Node.js as well How to migrate Apache Cassandra tables to MongoDB documents; Couchbase to MongoDB; and transferring data between Oracle and MongoDB How to use Kundera, Spring Data, and Spring XD with MongoDB How to load MongoDB data into Oracle Database and integrating MongoDB with Oracle Database in Oracle Data Integrator Audience: The target audience of the book is NoSQL database developers. Target audience includes Java, PHP and Ruby developers. The book is suitable for an intermediate level course in NoSQL database.

MongoDB' (from hu'mongo'us) is a cross-platform document-oriented database configuration. Classified like a NoSQL database, MongoDB eschews the customary table-based relational database construction in favour of JSON-like files with active schemas (MongoDB calls the setup BSON), creating the incorporation of information in definite kinds of applications simpler and speedier. Released under a amalgamation of the GNU Affero General Public License and the Apache License, MongoDB is gratis and open origin code. There has never been a MongoDB Guide like this. It contains 60 answers, much more than you can imagine; comprehensive answers and extensive details and references, with insights that have never before been offered in print. Get the information you need--fast! This all-embracing guide offers a thorough view of key knowledge and detailed insight. This Guide introduces what you want to know about MongoDB. A quick look inside of some of the subjects covered: LAMP (software bundle), Rackspace Cloud - Cloud Servers, Cloud database - Data model, Django (web frame-

work) - Server arrangements, MongoDB Inc. - MongoDB University, OpenShift - Supported databases, Spatial database - Spatial database systems, Comparison of structured storage software - Comparison, MongoDB Inc. - MongoDB Subscriptions, NoSQL - NoSQL databases on the cloud, Giant Bomb - Development, MongoDB - Criticisms, MongoDB - MongoDB tools, Web development - Database technology, MongoDB - History, MongoDB - Licensing and support, Fat-Free Framework, CherryPy - Object-relational mappers, Informix - Key Products, MongoDB Inc. - MongoDB Management Service, BSON, MongoDB - Production deployments, MongoDB Inc. - CIA backing and controversy, MongoDB - Language support, VMware - History, NoSQL - Taxonomy, Heroku - History, 10gen, Foswiki - Features, Database 2000s NoSQL and NewSQL databases, Spatial database - Features of spatial databases, TokuMX, and much more...

Design, administer, and deploy high-volume and fault-tolerant database applications using MongoDB 4.x Key Features Build a powerful and scalable MongoDB database using real industry data Understand the process of designing NoSQL schema with the latest release of MongoDB 4.x Explore the ins and outs of MongoDB, including queries, replication, sharding, and vital admin tasks Book Description When it comes to managing a high volume of unstructured and non-relational datasets, MongoDB is the defacto database management system (DBMS) for DBAs and data architects. This updated book includes the latest release and covers every feature in MongoDB 4.x, while helping you get hands-on with building a MongoDB database app. You'll get to grips with MongoDB 4.x concepts such as indexes, database design, data modeling, authentication, and aggregation. As you progress, you'll cover tasks such as performing routine operations when developing a dynamic database-driven website. Using examples, you'll learn how to work with queries and regular database operations. The book will not only guide you through design and implementation, but also help you monitor operations to achieve optimal performance and secure your MongoDB database systems. You'll also be introduced to advanced techniques such as aggregation, map-reduce, complex queries, and generating ad hoc financial reports on the fly. Later, the book shows you how to work with multiple collections as well as embedded arrays and documents, before finally exploring key topics such as replication, sharding, and secu-

rity using practical examples. By the end of this book, you'll be well-versed with MongoDB 4.x and be able to perform development and administrative tasks associated with this NoSQL database. What you will learn Understand how to configure and install MongoDB 4.x Build a database-driven website using MongoDB as the backend Perform basic database operations and handle complex MongoDB queries Develop a successful MongoDB database design for large corporate customers with complex requirements Secure MongoDB database systems by establishing role-based access control with X.509 transport-level security Optimize reads and writes directed to a replica set or sharded cluster Perform essential MongoDB administration tasks Maintain database performance through monitoring Who this book is for This book is a MongoDB tutorial for DevOps engineers, database developers, database administrators, system administrators and those who are just getting started with NoSQL and looking to build document-oriented databases and gain real-world experience in managing databases using MongoDB. Basic knowledge of databases and Python is required to get started with this DBMS book.

Get a head start with eXist, the open source NoSQL database and application development platform built entirely around XML technologies. With this hands-on guide, you'll learn eXist from the ground up, from using this feature-rich database to work with millions of documents to building complex web applications that take advantage of eXist's many extensions. If you're familiar with XML—as a student, professor, publisher, or developer—you'll find that eXist is ideal for all kinds of documents. This book shows you how to store, query, and search documents with XQuery and other XML technologies, and how to construct applications on top of the database with tools such as eXide and eXist's built-in development environment. Manage both data-oriented and text-oriented markup documents securely Build a sample application that analyzes and searches Shakespeare's plays Go inside the architecture and learn how eXist processes documents Learn how to work with eXist's internal development environment Choose among various indexes, including a full-text index based on Apache Lucene Dive into eXist's APIs for integrating or interacting with the database Extend eXist by building your own Triggers, Scheduled Tasks, and XQuery extension modules