

# Mongodb Developer Certification

[Hands-On Full Stack Development with Spring Boot 2 and React](#) Juha Hinkula 2019-05-23 A comprehensive guide to building full stack applications covering frontend and server-side programming, data management, and web security Key Features Unleash the power of React Hooks to build interactive and complex user interfaces Build scalable full stack applications designed to meet demands of modern users Understand how the Axios library simplifies CRUD operations Book Description React Hooks have changed the way React components are coded. They enable you to write components in a more intuitive way without using classes, which makes your code easier to read and maintain. Building on from the previous edition, this book is updated with React Hooks and the latest changes introduced in create-react-app and Spring Boot 2.1. This book starts with a brief introduction to Spring Boot. You'll understand how to use dependency injection and work with the data access layer of Spring using Hibernate as the ORM tool. You'll then learn how to build your own RESTful API endpoints for web applications. As you advance, the book introduces you to other Spring components, such as Spring Security to help you secure the backend. Moving on, you'll explore React and its app development environment and components for building your frontend. Finally, you'll create a Docker container for your application by implementing the best practices that underpin professional full stack web development. By the end of this book, you'll be equipped with all the knowledge you need to build modern full stack applications with Spring Boot for the backend and React for the frontend. What you will learn Create a RESTful web service with Spring Boot Grasp the fundamentals of dependency injection and how to use it for backend development Discover techniques for securing the backend using Spring Security Understand how to use React for frontend programming Benefit from the Heroku cloud server by deploying your application to it Delve into the techniques for creating unit tests using JUnit Explore the Material UI component library to make more user-friendly user interfaces Who this book is for If you are a Java developer familiar with Spring, but are new to building full stack applications, this is the book for you.

**Java 9 Dependency Injection** Nilang Patel 2018-04-26 Create clean code with Dependency Injection principles Key Features Use DI to make your code loosely coupled to manage and test your applications easily on Spring 5 and Google Guice Learn the best practices and methodologies to implement DI Write more maintainable Java code by decoupling your objects from their implementations Book Description Dependency Injection (DI) is a design pattern that allows us to remove the hard-coded dependencies and make our application loosely coupled, extendable, and maintainable. We can implement DI to move the dependency resolution from compile-time to runtime. This book will be your one stop guide to write loosely coupled code using the latest features of Java 9 with frameworks such as Spring 5 and Google Guice. We begin by explaining what DI is and teaching you about IoC containers. Then you'll learn about object compositions and their role in DI. You'll find out how to build a modular application and learn how to use DI to focus your efforts on the business logic unique to your application and let the framework handle the infrastructure work to put it all together. Moving on, you'll gain knowledge of Java 9's new features and modular framework and how DI works in Java 9. Next, we'll explore Spring and Guice, the popular frameworks for DI. You'll see how to define injection keys and configure them at the framework-specific level. After that, you'll find out about the different types of scopes available in both popular frameworks. You'll see how to manage dependency of cross-cutting concerns while writing applications through aspect-oriented programming. Towards the end, you'll learn to integrate any third-party library in your DI-enabled application and explore common pitfalls and recommendations to build a solid application with the help of best practices, patterns, and anti-patterns in DI. What you will learn Understand the benefits of DI and fo from a tightly coupled design to a cleaner design organized around dependencies See Java 9's new features and modular framework Set up Guice and Spring in an application so that it can be used for DI Write integration tests for DI applications Use scopes to handle complex application scenarios Integrate any third-party library in your DI-enabled application Implement Aspect-Oriented Programming to handle common cross-cutting concerns such as logging, authentication, and transactions Understand IoC patterns and anti-patterns in DI Who this book is for This

book is for Java developers who would like to implement DI in their application. Prior knowledge of the Spring and Guice frameworks and Java programming is assumed.

[CCFP Certified Cyber Forensics Professional All-in-One Exam Guide](#) Chuck Easttom 2014-08-29 Get complete coverage of all six CCFP exam domains developed by the International Information Systems Security Certification Consortium (ISC)2. Written by a leading computer security expert, this authoritative guide fully addresses cyber forensics techniques, standards, technologies, and legal and ethical principles. You'll find learning objectives at the beginning of each chapter, exam tips, practice exam questions, and in-depth explanations. Designed to help you pass the exam with ease, this definitive volume also serves as an essential on-the-job reference. COVERS ALL SIX EXAM DOMAINS: Legal and ethical principles Investigations Forensic science Digital forensics Application forensics Hybrid and emerging technologies ELECTRONIC CONTENT INCLUDES: 250 practice exam questions Test engine that provides full-length practice exams and customized quizzes by chapter or by exam domain

[Mastering Apache Solr 7.x](#) Sandeep Nair 2018-02-22 Accelerate your enterprise search engine and bring relevancy in your search analytics Key Features A practical guide in building expertise with Indexing, Faceting, Clustering and Pagination Master the management and administration of Enterprise Search Applications and services seamlessly Handle multiple data inputs such as JSON, xml, pdf, doc, xls,ppt, csv and much more. Book Description Apache Solr is the only standalone enterprise search server with a REST-like application interface. providing highly scalable, distributed search and index replication for many of the world's largest internet sites. To begin with, you would be introduced to how you perform full text search, multiple filter search, perform dynamic clustering and so on helping you to brush up the basics of Apache Solr. You will also explore the new features and advanced options released in Apache Solr 7.x which will get you numerous performance aspects and making data investigation simpler, easier and powerful. You will learn to build complex queries, extensive filters and how are they compiled in your system to bring relevance in your search tools. You will learn to carry out Solr scoring, elements affecting the document score and how you can optimize or tune the score for the application at hand. You will learn to extract features of documents, writing complex queries in re-ranking the documents. You will also learn advanced options helping you to know what content is indexed and how the extracted content is indexed. Throughout the book, you would go through complex problems with solutions along with varied approaches to tackle your business needs. By the end of this book, you will gain advanced proficiency to build out-of-box smart search solutions for your enterprise demands. What you will learn Design schema using schema API to access data in the database Advance querying and fine-tuning techniques for better performance Get to grips with indexing using Client API Set up a fault tolerant and highly available server with newer distributed capabilities, SolrCloud Explore Apache Tika to upload data with Solr Cell Understand different data operations that can be done while indexing Master advanced querying through Velocity Search UI, faceting and Query Re-ranking, pagination and spatial search Learn to use JavaScript, Python, SolrJ and Ruby for interacting with Solr Who this book is for The book would rightly appeal to developers, software engineers, data engineers and database architects who are building or seeking to build enterprise-wide effective search engines for business intelligence. Prior experience of Apache Solr or Java programming is must to take the best of this book.

**MongoDB Administrator's Guide** Cyrus Dasadia 2017-10-25 Manage, fine-tune, secure and deploy your MongoDB solution with ease with the help of practical recipes About This Book Configure and deploy your MongoDB instance securely, without any hassle Optimize your database's query performance, perform scale-out operations, and make your database highly available Practical guide with a recipe-based approach to help you tackle any problem in the application and database administration aspects of MongoDB Who This Book Is For Database administrators with a basic understanding of the features of MongoDB and who want to professionally configure, deploy, and administer a MongoDB database, will find this book essential. If you are a MongoDB developer and want to get into MongoDB administration, this book will also help you. What You Will Learn Install and deploy MongoDB in

production Manage and implement optimal indexes Optimize monitoring in MongoDB Fine-tune the performance of your queries Debug and diagnose your database's performance Optimize database backups and recovery and ensure high availability Make your MongoDB instance scalable Implement security and user authentication features in MongoDB Master optimal cloud deployment strategies In Detail MongoDB is a high-performance and feature-rich NoSQL database that forms the backbone of the systems that power many different organizations. Packed with many features that have become essential for many different types of software professional and incredibly easy to use, this cookbook contains more than 100 recipes to address the everyday challenges of working with MongoDB. Starting with database configuration, you will understand the indexing aspects of MongoDB. The book also includes practical recipes on how you can optimize your database query performance, perform diagnostics, and query debugging. You will also learn how to implement the core administration tasks required for high-availability and scalability, achieved through replica sets and sharding, respectively. You will also implement server security concepts such as authentication, user management, role-based access models, and TLS configuration. You will also learn how to back up and recover your database efficiently and monitor server performance. By the end of this book, you will have all the information you need—along with tips, tricks, and best practices—to implement a high-performance MongoDB solution. Style and approach This practical book follows a problem-solution approach to help you tackle any issues encountered while performing MongoDB administrative tasks. Each recipe is detailed, and explained in a very easy to understand manner

*Practical Microservices with Dapr and .NET* Davide Bedin 2022-11-11 Use the innovative, highly portable event-driven distributed application runtime to simplify building resilient and scalable microservices for cloud and edge applications. Purchase of the print or Kindle book includes a free eBook in the PDF format. Key Features Build resilient, stateless, and stateful microservice applications that run on the cloud and edge Overcome common issues in distributed systems, such as low latency and scaling, using any language and framework Learn how to expose and operate Dapr applications with multiple options Book Description This second edition will help you get to grips with microservice architectures and how to manage application complexities with Dapr in no time. You'll understand how Dapr simplifies development while allowing you to work with multiple languages and platforms. Following a C# sample, you'll understand how Dapr's runtime, building blocks, and software development kits (SDKs) help you to simplify the creation of resilient and portable microservices. Dapr provides an event-driven runtime that supports the essential features you need for building microservices, including service invocation, state management, and publish/subscribe messaging. You'll explore all of those in addition to various other advanced features with this practical guide to learning Dapr. With a focus on deploying the Dapr sample application to an Azure Kubernetes Service cluster and to the Azure Container Apps serverless platform, you'll see how to expose the Dapr application with NGINX, YARP, and Azure API Management. By the end of this book, you'll be able to write microservices easily by implementing industry best practices to solve problems related to distributed systems. What you will learn Use Dapr to create services, invoking them directly and via pub/sub Discover best practices for working with microservice architectures Leverage the actor model to orchestrate data and behavior Expose API built with Dapr applications via NGINX and Azure API Management Use Azure Kubernetes Service to deploy a sample application Monitor Dapr applications using Zipkin, Prometheus, and Grafana Scale and load test Dapr applications on Kubernetes Get to grips with Azure Container Apps as you combine Dapr with a serverless platform Who this book is for This book is for developers looking to explore and implement microservices architectures in Dapr applications using .NET examples. Whether you are new to microservices or have knowledge of this architectural approach and want to get hands-on experience using Dapr, you'll find this book useful. Familiarity with .NET will help you to understand the C# samples and code snippets used in the book.

**MongoDB Data Modeling and Schema Design** Daniel Coupal 2023-05-24 Each book in the Align > Refine > Design series covers conceptual, logical, and physical data modeling (schema design) for a specific database product, combining the best of data modeling practices with solution-specific considerations, which lead to effective communication tools and extensible datastore foundations. Read *MongoDB Data Modeling and Schema Design* if you are a data architect or modeler who needs to expand your modeling skills to include

MongoDB, or if you are a database administrator or developer who knows MongoDB but needs to expand your schema design skills. The book's introduction and three chapters cover the proven approach. The introduction covers the three modeling characteristics of precise, minimal, and visual; the three model components of entities, relationships, and attributes; the three model levels of conceptual (align), logical (refine), and physical (design); the three modeling perspectives of relational, dimensional, and NoSQL; and the three modeling challenges with NoSQL (tactical, strategy, and cultural). Next, Chapter 1 covers Align, Chapter 2 Refine, and Chapter 3 Design. An animal shelter case study creates continuity across these three modeling levels. If you are interested in learning how to build multiple database solutions, read all the books in the Align > Refine > Design series. Since each book is created from the same template, once you read one, you'll be able to pick up the techniques for another database solution quickly.

*Cosmos DB for MongoDB Developers* Manish Sharma 2018-08-09 Learn Azure Cosmos DB and its MongoDB API with hands-on samples and advanced features such as the multi-homing API, geo-replication, custom indexing, TTL, request units (RU), consistency levels, partitioning, and much more. Each chapter explains Azure Cosmos DB's features and functionalities by comparing it to MongoDB with coding samples. *Cosmos DB for MongoDB Developers* starts with an overview of NoSQL and Azure Cosmos DB and moves on to demonstrate the difference between geo-replication of Azure Cosmos DB compared to MongoDB. Along the way you'll cover subjects including indexing, partitioning, consistency, and sizing, all of which will help you understand the concepts of read units and how this calculation is derived from an existing MongoDB's usage. The next part of the book shows you the process and strategies for migrating to Azure Cosmos DB. You will learn the day-to-day scenarios of using Azure Cosmos DB, its sizing strategies, and optimizing techniques for the MongoDB API. This information will help you when planning to migrate from MongoDB or if you would like to compare MongoDB to the Azure Cosmos DB MongoDB API before considering the switch. What You Will Learn Migrate to MongoDB and understand its strategies Develop a sample application using MongoDB's client driver Make use of sizing best practices and performance optimization scenarios Optimize MongoDB's partition mechanism and indexing Who This Book Is For MongoDB developers who wish to learn Azure Cosmos DB. It specifically caters to a technical audience, working on MongoDB.

*Mastering Predictive Analytics with R* James D. Miller 2017-08-18 Master the craft of predictive modeling in R by developing strategy, intuition, and a solid foundation in essential concepts About This Book Grasping the major methods of predictive modeling and moving beyond black box thinking to a deeper level of understanding Leveraging the flexibility and modularity of R to experiment with a range of different techniques and data types Packed with practical advice and tips explaining important concepts and best practices to help you understand quickly and easily Who This Book Is For Although budding data scientists, predictive modelers, or quantitative analysts with only basic exposure to R and statistics will find this book to be useful, the experienced data scientist professional wishing to attain master level status, will also find this book extremely valuable.. This book assumes familiarity with the fundamentals of R, such as the main data types, simple functions, and how to move data around. Although no prior experience with machine learning or predictive modeling is required, there are some advanced topics provided that will require more than novice exposure. What You Will Learn Master the steps involved in the predictive modeling process Grow your expertise in using R and its diverse range of packages Learn how to classify predictive models and distinguish which models are suitable for a particular problem Understand steps for tidying data and improving the performing metrics Recognize the assumptions, strengths, and weaknesses of a predictive model Understand how and why each predictive model works in R Select appropriate metrics to assess the performance of different types of predictive model Explore word embedding and recurrent neural networks in R Train models in R that can work on very large datasets In Detail R offers a free and open source environment that is perfect for both learning and deploying predictive modeling solutions. With its constantly growing community and plethora of packages, R offers the functionality to deal with a truly vast array of problems. The book begins with a dedicated chapter on the language of models and the predictive modeling process. You will understand the learning curve and the process of tidying data. Each subsequent chapter tackles a particular type of model, such as neural networks, and focuses on the three important questions of how the model works, how to use R

to train it, and how to measure and assess its performance using real-world datasets. How do you train models that can handle really large datasets? This book will also show you just that. Finally, you will tackle the really important topic of deep learning by implementing applications on word embedding and recurrent neural networks. By the end of this book, you will have explored and tested the most popular modeling techniques in use on real-world datasets and mastered a diverse range of techniques in predictive analytics using R. Style and approach This book takes a step-by-step approach in explaining the intermediate to advanced concepts in predictive analytics. Every concept is explained in depth, supplemented with practical examples applicable in a real-world setting.

**50 Tips and Tricks for MongoDB Developers** Kristina Chodorow 2011-04-19 Getting started with MongoDB is easy, but once you begin building applications with it, you'll face some complex issues. What are the tradeoffs between normalized and denormalized data? How do you handle replica set failure and failover? This collection of MongoDB tips, tricks, and hacks helps you resolve issues with everything from application design and implementation to data safety and monitoring. You get specific guidance in five topic areas directly from engineers at 10gen, the company that develops and supports this open source database: Application Design Tips: What to keep in mind when designing your schema Implementation Tips: Programming applications against MongoDB Optimization Tips: Speeding up your applications Data Safety Tips: Using replication and journaling to keep data safe—without sacrificing too much performance Administration Tips: How to configure MongoDB and keep it running smoothly

**Just Code** Associate Director Charles Babbage Institute and Faculty Jeffrey R Yost 2025-11-25 "This book examines how IT giants use software, algorithms, and systems to reinforce global social inequalities. It offers scholars and students a broad analysis of the power structures embedded in digital technologies and serves as an accessible resource for introducing the diverse methods and perspectives needed to understand these issues"--

**MongoDB Cookbook - Second Edition** Cyrus Dasadia 2016-01-13 Harness the latest features of MongoDB 3 with this collection of 80 recipes - from managing cloud platforms to app development, this book is a vital resource Key Features [\*]Get to grips with the latest features of MongoDB 3 [\*]Interact with the MongoDB server and perform a wide range of query operations from the shell [\*] From administration to automation, this cookbook keeps you up to date with the world's leading NoSQL database Book DescriptionMongoDB is a high-performance and feature-rich NoSQL database that forms the backbone of the systems that power many different organizations - it's easy to see why it's the most popular NoSQL database on the market. Packed with many features that have become essential for many different types of software professionals and incredibly easy to use, this cookbook contains many solutions to the everyday challenges of MongoDB, as well as guidance on effective techniques to extend your skills and capabilities. This book starts with how to initialize the server in three different modes with various configurations. You will then be introduced to programming language drivers in both Java and Python. A new feature in MongoDB 3 is that you can connect to a single node using Python, set to make MongoDB even more popular with anyone working with Python. You will then learn a range of further topics including advanced query operations, monitoring and backup using MMS, as well as some very useful administration recipes including SCRAM-SHA-1 Authentication. Beyond that, you will also find recipes on cloud deployment, including guidance on how to work with Docker containers alongside MongoDB, integrating the database with Hadoop, and tips for improving developer productivity. Created as both an accessible tutorial and an easy to use resource, on hand whenever you need to solve a problem, MongoDB Cookbook will help you handle everything from administration to automation with MongoDB more effectively than ever before. What you will learn [\*]Install, configure, and administer MongoDB sharded clusters and replica sets [\*]Begin writing applications using MongoDB in Java and Python languages [\*]Initialize the server in three different modes with various configurations [\*]Perform cloud deployment and introduce PaaS for Mongo [\*]Discover frameworks and products built to improve developer productivity using Mongo [\*]Take an in-depth look at the Mongo programming driver APIs in Java and Python [\*]Set up enterprise class monitoring and backups of MongoDB Who this book is for This book is engineered for anyone who is interested in managing data in an easy and efficient way using MongoDB. You do not need any prior knowledge of MongoDB, but it would be helpful if you have some programming

experience in either Java or Python.

**Mastering MongoDB 7.0** Marko Aleksendrić 2024-01-05 Gain MongoDB expertise and discover advanced queries and Atlas insights with this ultimate guide to version 7.0 Key Features Enhance your proficiency in advanced queries, aggregation, and optimized indexing to achieve peak MongoDB performance Monitor, back up, and integrate applications effortlessly with MongoDB Atlas Implement security thorough RBAC, auditing, and encryption to ensure comprehensive data protection and privacy Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionMastering MongoDB 7.0 explores the latest version of MongoDB, an exceptional NoSQL database solution that aligns with the needs of modern web applications. This book starts with an informative overview of MongoDB's architecture and developer tools, guiding you through the process of connecting to databases seamlessly. This MongoDB book explores advanced queries in detail, including aggregation pipelines and multi-document ACID transactions. It delves into the capabilities of the MongoDB Atlas developer data platform and the latest features, such as Atlas Vector Search, and their role in AI applications, enabling developers to build applications with the scalability and performance that today's organizations need. It also covers the creation of resilient search functionality using MongoDB Atlas Search. Mastering MongoDB 7.0's deep coverage of advanced techniques encompasses everything from role-based access control (RBAC) to user management, auditing practices, and encryption across data, network, and storage layers. By the end of this book, you'll have developed the skills necessary to create efficient, secure, and high-performing applications using MongoDB. You'll have the confidence to undertake complex queries, integrate robust applications, and ensure data security to overcome modern data challenges. What you will learn Execute advanced MongoDB queries for intricate data insights Harness the power of aggregation pipelines to transform data Ensure data integrity with multi-document ACID transactions Optimize query performance using strategic indexing techniques Navigate MongoDB Atlas seamlessly for monitoring and backups Enable robust search functionality with Atlas Search Master RBAC, user management, and data encryption for security Implement auditing practices for transparency and accountability Who this book is for This book is for developers with an intermediate skill level who aim to become MongoDB experts. Working knowledge of MongoDB is recommended to gain the most from this guide. Ideal for database administrators, app developers, and software engineers, this book will assist you in developing advanced skills to conquer intricate data tasks.

**Social Data Analytics in the Cloud with AI** Xuebin Wei 2024-12-30 The rise of cloud computing and Generative artificial intelligence (AI) has revolutionized data analytics pipelines. Analysts can collect, store, and process vast datasets in the cloud with high availability and scalability, and also leverage Generative AI to query and visualize datasets in natural languages. This pioneering textbook provides a gateway for students, educators, and professionals to develop and enhance social data analytics capabilities with the latest cloud computing and AI technologies. The textbook introduces educational cloud resources from leading technology companies, begins with foundational concepts, and progresses to advanced techniques. Features The first textbook on cloud-based social data analytics with the assistance of Generative AI. Introduces educational cloud resources from leading technology companies like AWS, GitHub, and MongoDB. Presents a fully AI-powered data analytics pipeline from Python coding to data collection with APIs, cloud-based data storage, natural language queries, and interactive visualization. Analyzes Census and social media data with the latest large language models (LLMs). Provides hands-on exercises with real-world datasets on timely issues. This textbook is an excellent resource for upper-level undergraduate and graduate students taking GIS, Urban Informatics, Social Science Data Analysis, and Data Science courses; faculty members teaching such courses; and professionals and researchers interested in leveraging cloud computing and Generative AI in social data analytics.

**MongoDB: The Definitive Guide** Shannon Bradshaw 2019-12-09 Manage your data with a system designed to support modern application development. Updated for MongoDB 4.2, the third edition of this authoritative and accessible guide shows you the advantages of using document-oriented databases. You'll learn how this secure, high-performance system enables flexible data models, high availability, and horizontal scalability. Authors Shannon Bradshaw, Eoin Brazil, and Kristina Chodorow provide guidance for database developers, advanced configuration for system administrators, and use cases for a variety of

projects. NoSQL newcomers and experienced MongoDB users will find updates on querying, indexing, aggregation, transactions, replica sets, ops management, sharding and data administration, durability, monitoring, and security. In six parts, this book shows you how to: Work with MongoDB, perform write operations, find documents, and create complex queries Index collections, aggregate data, and use transactions for your application Configure a local replica set and learn how replication interacts with your application Set up cluster components and choose a shard key for a variety of applications Explore aspects of application administration and configure authentication and authorization Use stats when monitoring, back up and restore deployments, and use system settings when deploying MongoDB

**Mastering MongoDB 3.x** Alex Giamas 2017-11-17 An expert's guide to build fault tolerant MongoDB application About This Book Master the advanced modeling, querying, and administration techniques in MongoDB and become a MongoDB expert Covers the latest updates and Big Data features frequently used by professional MongoDB developers and administrators If your goal is to become a certified MongoDB professional, this book is your perfect companion Who This Book Is For Mastering MongoDB is a book for database developers, architects, and administrators who want to learn how to use MongoDB more effectively and productively. If you have experience in, and are interested in working with, NoSQL databases to build apps and websites, then this book is for you. What You Will Learn Get hands-on with advanced querying techniques such as indexing, expressions, arrays, and more. Configure, monitor, and maintain highly scalable MongoDB environment like an expert. Master replication and data sharding to optimize read/write performance. Design secure and robust applications based on MongoDB. Administer MongoDB-based applications on-premise or in the cloud Scale MongoDB to achieve your design goals Integrate MongoDB with big data sources to process huge amounts of data In Detail MongoDB has grown to become the de facto NoSQL database with millions of users—from small startups to Fortune 500 companies. Addressing the limitations of SQL schema-based databases, MongoDB pioneered a shift of focus for DevOps and offered sharding and replication maintainable by DevOps teams. The book is based on MongoDB 3.x and covers topics ranging from database querying using the shell, built in drivers, and popular ODM mappers to more advanced topics such as sharding, high availability, and integration with big data sources. You will get an overview of MongoDB and how to play to its strengths, with relevant use cases. After that, you will learn how to query MongoDB effectively and make use of indexes as much as possible. The next part deals with the administration of MongoDB installations on-premise or in the cloud. We deal with database internals in the next section, explaining storage systems and how they can affect performance. The last section of this book deals with replication and MongoDB scaling, along with integration with heterogeneous data sources. By the end this book, you will be equipped with all the required industry skills and knowledge to become a certified MongoDB developer and administrator. Style and approach This book takes a practical, step-by-step approach to explain the concepts of MongoDB. Practical use-cases involving real-world examples are used throughout the book to clearly explain theoretical concepts.

**Pro Hibernate and MongoDB** Anghel Leonard 2013-06-25 Shows how to use and integrate Hibernate and MongoDB. More specifically, this book guides you through the bootstrap; building transactions; handling queries and query entities; and mappings.

**Beginning MongoDB Atlas with .NET** Luce Carter 2024-09-17 This book is a tutorial on MongoDB customized for developers working in Microsoft .NET 6, .NET 7, and beyond. It explains the differences between relational database systems and the document model supported by MongoDB, and shows how to build .NET applications that run against a MongoDB database, especially one in the cloud. Author Luce Carter kicks things off by teaching you how to determine when to use a document database versus a relational engine. After that, she walks you through building a Microsoft .NET project combining the MongoDB Atlas cloud database as a service solution with a .NET application. In the process, you will learn how to create, read, update, and delete data in MongoDB from any .NET project. You will come away from this book with a solid understanding of MongoDB's Developer Data Platform and how to use it from your .NET applications. You'll be able to connect to MongoDB in the cloud and take advantage of the flexibility and scalability that MongoDB's document storage model provides, and you'll understand how to craft your applications to run using document storage and the MongoDB database engine. What You Will Learn Know when to

use the MongoDB document model Build .NET applications that connect to MongoDB for data storage Create MongoDB clusters on the MongoDB Atlas cloud platform Store data in MongoDB Atlas Create, Read, Update, and Delete (CRUD) data from .NET Web API projects Test your CRUD endpoints using RESTful operations Validate schemas to help protect against breaking changes Who This Book Is For .NET developers who are looking for an alternative to relational databases, and those looking for a flexible and scalable document storage solution for use from .NET applications. Additionally, anyone wanting to learn MongoDB in the context of .NET and C# will benefit from this book.

**Spring 5.0 Projects** Nilang Patel 2019-02-28 Discover the latest features of Spring framework by building robust, fast, and reactive web applications Key Features Take advantage of all the features of Spring 5.0 with third party tools to build a robust back end Secure Spring based web application using Spring Security framework with LDAP and OAuth protocol Develop robust and scalable microservice based applications on Spring Cloud, using Spring Boot Book DescriptionSpring makes it easy to create RESTful applications, merge with social services, communicate with modern databases, secure your system, and make your code modular and easy to test. With the arrival of Spring Boot, developers can really focus on the code and deliver great value, with minimal contour. This book will show you how to build various projects in Spring 5.0, using its features and third party tools. We'll start by creating a web application using Spring MVC, Spring Data, the World Bank API for some statistics on different countries, and MySQL database. Moving ahead, you'll build a RESTful web services application using Spring WebFlux framework. You'll be then taken through creating a Spring Boot-based simple blog management system, which uses Elasticsearch as the data store. Then, you'll use Spring Security with the LDAP libraries for authenticating users and create a central authentication and authorization server using OAuth 2 protocol. Further, you'll understand how to create Spring Boot-based monolithic application using JHipster. Toward the end, we'll create an online book store with microservice architecture using Spring Cloud and Net?ix OSS components, and a task management system using Spring and Kotlin. By the end of the book, you'll be able to create coherent and ?exible real-time web applications using Spring Framework. What you will learn Build Spring based application using Bootstrap template and JQuery Understand the Spring WebFlux framework and how it uses Reactor library Interact with Elasticsearch for indexing, querying, and aggregating data Create a simple monolithic application using JHipster Use Spring Security and Spring Security LDAP and OAuth libraries for Authentication Develop a microservice-based application with Spring Cloud and Netflix Work on Spring Framework with Kotlin Who this book is for This book is for competent Spring developers who wish to understand how to develop complex yet flexible applications with Spring. You must have a good knowledge of Java programming and be familiar with the basics of Spring.

**Learn MongoDB 4.x** Doug Bierer 2020-09-11 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 DescriptionWhen 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 security 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.

## Mongodb Developer Certification

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