

OMB No. 3018247198306

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# Nosql Web Development With Apache Cassandra By Deepak Vohra

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MongoDB in 100 Seconds I've read 40 programming books. Top 5 you must read.  
How do NoSQL databases work? Simply Explained! SQL vs NoSQL - Choose for web  
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*Nosql Web  
Development  
With Apache  
Cassandra By  
Deepak Vohra*

*OMB No.  
3018247198306  
edited by*

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**ZAYDEN HARVEY**

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**PRO MERN STACK**

"O'Reilly Media, Inc."

"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.

[Stay Relevant in 2020 - Java Developer 1000+ Unique Real Life Challenges and Interview Questions](#) CRC Press

[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.DescriptionFor 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 learna- 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 forThis 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

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**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/>

*Cassandra: The Definitive Guide* Springer

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.

### **A DEEP DIVE INTO NoSQL DATABASES: THE USE CASES AND APPLICATIONS**

Packt Publishing Ltd  
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. *Node.js, MongoDB, and AngularJS Web Development Frontend Dogma* 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 *Apache HBase Primer* Cengage Learning

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 examples 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.

### **PRACTICAL WEB DEVELOPMENT**

CRC Press  
 Apache Cassandra is an open-source distributed database system noted for its consistency, its ability to run on commodity hardware, and its easy deployment to cloud infrastructure. With *Cassandra Succinctly* by Marko Svajek, you will learn the architecture behind Cassandra that makes it a reliable system, including how hashes are used to identify where data is stored, how choosing the right replication factor can enhance or hinder performance, and how the

system handles updating and deleting data. By the end of the book, you will be able to store and model data using the Cassandra Query Language, and use Cassandra within your own applications.

[Scaling Big Data with Hadoop and Solr - Second Edition](#) Createspace Independent Publishing Platform

A hands-on guide to leveraging NoSQL databases NoSQL databases are an efficient and powerful tool for storing and manipulating vast quantities of data. Most NoSQL databases scale well as data grows. In addition, they are often malleable and flexible enough to accommodate semi-structured and sparse data sets. This comprehensive hands-on guide presents fundamental concepts and practical solutions for getting you ready to use NoSQL databases. Expert author Shashank Tiwari begins with a helpful introduction on the subject of NoSQL, explains its characteristics and typical uses, and looks at where it fits in the application stack. Unique insights help you choose which NoSQL solutions are best for solving your specific data storage

needs. Professional NoSQL: Demystifies the concepts that relate to NoSQL databases, including column-family oriented stores, key/value databases, and document databases. Delves into installing and configuring a number of NoSQL products and the Hadoop family of products. Explains ways of storing, accessing, and querying data in NoSQL databases through examples that use MongoDB, HBase, Cassandra, Redis, CouchDB, Google App Engine Datastore and more. Looks at architecture and internals. Provides guidelines for optimal usage, performance tuning, and scalable configurations. Presents a number of tools and utilities relating to NoSQL, distributed platforms, and scalable processing, including Hive, Pig, RRDtool, Nagios, and more. [International Joint Conference Socratecha](#) 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. Emerging Technologies and Applications in Data Processing and Management* Addison-Wesley Professional 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 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.

**Database Fundamentals for Java Programmers** "O'Reilly Media, Inc." 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 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.

*The Web Development Glossary* Pearson Education

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.

## WEB DEVELOPMENT WITH NODE AND EXPRESS

Apress

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.

### Comprehensive Geographic Information Systems

O'Reilly Media

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.

*Node.js, MongoDB and Angular Web*

*Development Apress*

NoSQL Web Development with Apache Cassandra Cengage Learning

**EXist** Packt Publishing Ltd  
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

**Learn MongoDB 4.x**  
Academic Press  
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

"O'Reilly Media, Inc."

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 framework) - 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...  
[PHP and MongoDB Web Development Beginner's Guide](#) BPB Publications  
 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.  
**Full Stack FastAPI, React, and MongoDB**  
 Packt Publishing Ltd  
 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.

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