## Madhava Lekkala

Software Engineer @ Toyota Motors

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Summary

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| Previous | Java Fullstack Developer @ Marriott Hotel |
| Preferred | Java Fullstack Developer |
| Location | Boston, MA, US |
| Desired Work Settings | No Preference |
| Willing to Relocate | Yes |
| Work Authorization(s): | Authorized to work in the United States on a full-time basis. Now or in the future will require visa sponsorship for employment in the United States. |
| Employment Type | Full-time Contract - Corp-to-Corp Contract - Independent Contract - W2 Contract to Hire - Corp-to-Corp Contract to Hire - Independent Contract to Hire - W2 |
| Total Experience | 8 years |
| Education | Unspecified |
| Profile Source | Dice |
| Profile Downloaded | Monday, December 9, 2024 |

**Madhava Lekkala   
Full Stack Java Developer  
Email ID:   
Contact no:**

**Professional Summary:**   
Around 8 years of experience in analysis, design, implementation, and testing of Object-Oriented Applications in Client/Server environments using Java/J2EE and UI technology stacks. Expertise in design and development of various web and enterprise-level applications using Java/J2EE technologies. Developed applications using latest technologies like Spring Boot, Hibernate and REST based Web services. Experience in working with Service Oriented Architecture that includes (UDDI) lookups & (WSDL) using SOAP. Application assessment and maintenance of Microservices architecture applications using Spring Boot and Restful Web Services. Involved in development of test environments on Docker containers and configuring the Docker containers using Kubernetes. Proficient in using AWS and extensive experience focusing on services like EC2, EKS, RDS, Cloud Watch, Cloud Formation, S3. Worked on different frontend application with Angular 2+ and recently worked on Angular 13. Experienced in developing Web UI Applications using HTML5, CSS3, Boot Strap, JavaScript, Typescript, Ajax, jQuery, Angular.js, React.js, Express.js, Node JS, and Spring MVC. Strong knowledge on working with GraphQL schema, queries, and mutations to interact with Mongo DB and several other data layers. Expertise in DAOs (Data Access Object) using Hibernate as ORM to interact with DBMS - like MySQL, PostgreSQL, SQL/PL-SQL Oracle, and NoSQL databases like MongoDB.

**Technical Skills:**

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| **J2EE Technologies:** | JSP, Servlets, JDBC, JavaBeans, JNDI, RMI, EJB |
| **Frameworks:** | Struts 1.x/2.x, Spring 3.x, Web Framework, JSF, Hibernate, iBatis, JPA |
| **Development Tools:** | Eclipse, My Eclipse, RAD and Net Beans |
| **Web Services:** | SOAP, WSDL, UDDI, REST-Jersey, JAX-WS, AXIS |
| **DB Servers:** | Oracle, DB2, SQL Server and MYSQL - SQL & PL/SQL |
| **Internet Technologies:** | HTML, Java Script, AJAX, XML, XSTL, CSS, AJAX, DOM/SAX,  JQUERY, JSON |
| **Version Control tools:** | CVS, Harvest, IBM Clear case and SVN |
| **Modeling Tools:** | Microsoft Visio, JUDE |
| **Web/Application Servers:** | WebSphere, Tomcat, WebLogic and JBOSS |
| **Messaging Technologies:** | JMS, IBM MQ Series |
| **CI/CD Tools:** | Jenkins, Maven, Gradle, Ant, Sonar cube, Jacoco, Cucumber and Junit. |
| **Other Tech &Tools:** | Log4j, SOAP UI, JAXP, JAXB, FileZilla, Putty, QC, Kubernetes, Docker |
| **Programming Languages**: | Angular JS, C, C++, JAVA, J2EE, Python |

**Education:   
Master of Science: Project Management   
Bachelor of Science: Computer Science**

**Professional Experience:**

**Toyota Motor, Dallas TX Aug 2023 – Till Date  
Role: Software Engineer**   
**Description:**Toyota Motor North America is the United States-based distributor of Toyota brand vehicles. Worked Vendor Management web application used by Vendors across America. The application enables vendors to manage inventory of their vehicle’s, schedule orders, track orders, manage sales and more.

**Responsibilities:**

* Developed user interfaces using Java 8, JSP, AJAX, Angular 7.0, HTML5, CSS, and Bootstrap, implementing Hibernate for database operations with lazy loading, transactions, and inheritance mapping.
* Built RESTful web services using Spring Boot, Apache Camel, and Java 8, leveraging Kibana for performance monitoring and visualization.
* Used Core Java features such as multi-threading, collections, stream APIs, and lambda expressions to optimize application performance and ensure clean, readable code.
* Integrated Swagger for auto-generating API documentation and worked with SOAP, WSDL, and XML for external service integration.
* Implemented Spring MVC for developing scalable web applications and managed server-side logic through EJB 3.x with JPA for efficient database interactions.
* Designed, developed, and deployed Java-based microservices utilizing Spring Boot, Spring Security, and Spring Data for handling large-scale transaction processing and system communication.
* Utilized Spring Boot Actuator for monitoring and managing applications in production environments, focusing on application health and performance.
* Managed and deployed applications using Docker and Kubernetes on cloud platforms, leveraging CI/CD pipelines with Jenkins, AWS CodeBuild, and CodePipeline for continuous integration and delivery.
* Implemented database operations using Hibernate ORM with MySQL, and employed Spring Data JPA to simplify database access and optimize SQL queries.
* Worked with Git to control versions and Jenkins to continuous integrate and deploy the built the CI/CD pipeline.
* used Node.js tools- Gulp, Grunt, Web pack and used popular Node.js frameworks, Express to mock a RESTful API.
* Built Angular services to consume RESTful APIs, enabling dynamic data retrieval and interaction between the front-end and back-end systems.
* Developed backend components using Java, Spring Boot, and Kafka for handling event-driven architecture and asynchronous messaging between microservices.
* Worked extensively with Java 8 streams for data processing, reducing code complexity and improving application performance.
* Integrated AWS services like EC2, S3, RDS, and DynamoDB, along with Amazon SDK to connect SQS for processing high-volume transactions.
* Deployed and scaled Java applications using Spring Boot, Pivotal Cloud Foundry (PCF), and AWS services to ensure high availability and scalability.
* Designed Java web applications following MVC architecture using frameworks like Struts and Spring MVC to enhance code modularity and separation of concerns.
* Developed and maintained unit tests for Java code using JUnit and Mockito, achieving high code coverage and ensuring robust application functionality.
* Participated in Agile ceremonies, contributing to design discussions, code reviews, and developing solutions to complex Java-based system issues.

**Marriott Hotel, Bethesda MD Jan 2020 – Feb 2022  
Role: Java Full-stack Developer  
Description**:  
Worked on a centralized Property Management System (PMS) for hotels, enabling management of room reservations, front desk operations, and guest billing. The system provided real-time data on occupancy, room rates, and availability, helping hotel staff streamline operations. It also integrated with various third-party systems for enhanced guest experience and operational efficiency.

**Responsibilities:**

* Refactored a monolithic application to microservices using Spring Boot and 12-factor app methodology; deployed, scaled, and configured microservices on AWS.
* Integrated Struts with Spring Framework; implemented Spring MVC, Spring IoC, Spring AOP, and Spring JDBC. Developed and consumed SOAP and RESTful web services.
* Migrated SOS-based systems to microservices architecture; deployed on AWS cloud infrastructure.
* Developed RESTful APIs for LDAP integration, handling user registration, login, and password management.
* Utilized Hibernate for ORM; defined Hibernate-mapping XML files and performed database operations (update, insert, delete).
* Implemented Angular services to manage application state and facilitate communication between different parts of the application.
* Implemented OAUTH with Ping Federate for secure access tokens in mobile applications accessing protected REST APIs.
* Developed dynamic web pages using JSP, JavaScript, and Servlets; designed user interfaces with jQuery and JavaScript.
* Used JUNIT and Mockito for testing and Jenkins for Continuous Integration and Continuous Deployment (CI/CD).
* Employed Java 11 features and Spring Boot for developing microservices and REST APIs.
* Enhanced user interfaces with AngularJS, creating responsive and cross-browser compatible designs.
* Managed issue tracking and resolution using JIRA, maintaining detailed records through various stages of issue resolution.
* Collaborated with Production Support and Testing teams by using Agile methodology.

**Panera Bread, St. Louis, MO June 2018 – Dec 2020  
Java Full-stack Developer  
Description:**  
 Worked on a comprehensive online food ordering application that connects users with a wide range of participating restaurants. Users can easily explore menus, place orders, and process payments, while restaurants gain access to a powerful management system for order processing, inventory control, and customer feedback.

**Responsibilities:**

* Developed and deployed Java 8 microservices using Spring Boot to handle core business functionalities, ensuring scalability and efficient performance.
* Designed and implemented RESTful APIs using Spring Web for various operations such as user registration, menu searching, food ordering, and checkout.
* Integrated Spring Data JDBC to manage and operate the MySQL database hosted on AWS RDS, ensuring smooth data management and access.
* Secured the system by implementing Spring Security with OAuth 2.0, providing authentication features like signup, login, and public and authorized APIs access.
* Utilized JWT to enhance security within microservices, ensuring robust authentication and authorization protocols across the system.
* Wrote unit and integration tests for React components using testing libraries like Jest and React Testing Library.
* Developed microservices architecture to decouple various functionalities, using Spring Framework technologies (Controller, Service, Repository) to ensure modularity and ease of maintenance.
* Implemented Apache Kafka for real-time messaging and data streaming between distributed systems, ensuring reliable and efficient communication.
* Implemented Hibernate ORM for persistence, managing database interactions efficiently while optimizing performance.
* Automated build, test, and deployment pipelines using Jenkins CI/CD, ensuring streamlined delivery to AWS EC2 environments.
* Built the user interface using React.js and Ant Design for seamless browsing, shopping cart functionality, and order processing.
* Configured AWS EC2 instances, managing IAM roles, groups, and S3 buckets for storing application assets.
* Employed AWS CodeDeploy for smooth deployment of applications, utilizing CloudFormation for infrastructure automation and analytics.
* Used JUnit for rigorous unit testing, ensuring high-quality code, and managed dependencies with Maven.
* Implemented responsive designs to ensure a seamless user experience across devices, enhancing usability and accessibility.

**Iprism Technologies, India April 2016 – May 2018 Role: Java Full-stack Developer  
Description:**Developed an e-commerce system with a client-side mall and a back-end management system. The project used Spring Boot and MyBatis, and was containerized with Docker. Client-side modules included product search, shopping cart, and order processing, while the backend handled product, order, and membership management. Key features included Redis caching, Elasticsearch for search, and RabbitMQ for message queuing, enhancing performance and scalability.

**Responsibilities:**

* Designed and implemented the backend of the e-commerce platform using Spring Boot and Spring Security for user authentication and role-based access control.
* Developed data persistence layers using MyBatis and integrated MyBatis Generator for automatic mapping of Java objects to relational database tables.
* Integrated Elasticsearch for product search functionality, enabling advanced filtering and full-text search.
* Employed RabbitMQ for handling asynchronous messaging between services, improving the system's efficiency under high traffic.
* Utilized Redis for caching frequently accessed data and MongoDB for schema-less storage to handle unstructured product data.
* Designed and implemented microservices architecture with Docker containers, ensuring scalability and ease of deployment.
* Leveraged Hibernate Validator for enforcing data integrity and consistency across the platform.
* Used JWT for secure, token-based authentication in the e-commerce platform, ensuring secure API communication.
* Managed CI/CD pipelines using Jenkins and GitHub Actions for seamless builds, testing, and deployments.