Ravi Kiran Vadde

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Professional Summary

Experienced Full Stack Developer and Technical lead for a Scrum team with strong expertise in Java, Spring Boot, and microservices architecture, recently graduated with a Master's in Computer Science from Texas Tech University. Demonstrated expertise in spearheading Scrum teams, optimizing development processes, and enhancing system performance and maintainability.

Technical Skills

Programming languages	: Java 11+, C, Python, SQL.
Java Technologies	: Servlets, JSP, JSF, JMS, JDBC, Java Multithreading, JUnit, TestNG, REST/SOAP.
Web Technologies	: HTML, CSS, JavaScript, AJAX.
Cloud	: Spring Cloud, Amazon Web Services (Amazon S3, Amazon Simple DB).
Frameworks	: Spring, MVC, Spring Boot, Hibernate, Spring Security, Vert.x, Batch, Kafka, Microservices.
Database	: MySQL Server, PostgreSQL, PL/SQL, MongoDB, Sybase.
DevOps	: SonarQube. GitHub.
SDLC Methodologies	: Waterfall, Agile, Scrum, Lean.

Experience

Full Stack Java Developer || Tata Consultancy Services || Bhubaneswar, OD, India　　　　**Dec 2019 – Jun 2022**

- Involved in all phases of Software Development Life Cycle (**SDLC**) including analysis, design, development, and testing of the project.
- Designed and implemented new **REST**-based web service operations and existing web services, ensuring scalability and performance.
- Experience in using and implementing design patterns such as Model-View-Control **MVC**, Data Access Object DAO, Factory, Singleton, and Business Delegate in the development of multi-tier distributed applications.
- Experienced in designing lightweight business components and integrated applications with the **Spring framework**, including Inversion of Control (**IOC**) and establishing the application context for the Spring Bean Factory.
- Developed a server-side application that interacts with a database using **Spring Boot** and **Hibernate**.
- Consolidated a complex **multi-module microservice** structure comprising 41 modules into a streamlined single module microservice architecture, reducing the risk of service breakage by 60%.
- Conducted design and code review meetings, adhering to client coding standards.
- Improved development time by 25% and customer satisfaction ratings by 15% through collaborative efforts in design, coding, testing, documentation, and solution implementation.
- Optimized email triggering processes using **multi-threading** in **Spring Batch**, saving $40,000 annually and reducing processing time by 42%.

Java Developer || Tata Consultancy Services || Bhubaneswar, OD, India　　　　**Jun 2019 – Dec 2019**

- Experienced in utilizing **JDBC**, **JPA**, and **Spring Boot** to connect to databases and implement **CRUD** operations.
- Involved in writing **JUnit** test cases and performing both unit and integration testing for the application. And achieved 90% code coverage with validated JUnit tests using **SonarLint**
- Created and deployed automation scripts for functional, regression, system, and integration testing, reducing testing time by 40% and increasing coverage by 20%.
- Employed **TestNG** for Java automation scripts, saving 40 hours per release cycle.
- Crafted complex **SQL** queries for data testing and performed validations on large databases and ETL processes.

Academic Projects

Fleet Xpress (GitHub)

- Implementd Fleet Xpress, a sophisticated web application for managing fleet operations, utilizing key Java EE components including **Spring MVC** for the Model-View-Controller architecture, Spring IoC for dependency injection, Spring Transaction management for ensuring data integrity, and **Spring Security** (6.3.x) for robust authentication and authorization mechanisms.
- The frontend was crafted using HTML5, CSS3, and JavaScript (ES6), with Thymeleaf facilitating seamless integration of web pages with backend **RESTful APIs**.
- **PostgreSQL** served as the relational database management system to handle and store extensive data from both clients and users, ensuring efficient data retrieval and manipulation. Additionally, employed Spring Data JPA for streamlined database operations and Hibernate ORM for object-relational mapping.

Event Management (GitHub)

- Designed and engineered EventManagement, a cutting-edge platform aimed at streamlining event planning and execution processes. Developed a **Spring Boot** application using the Spring framework (6.1.8), with a focus on security through Spring Security to safeguard sensitive information.
- Leveraged **React.js** (16.0) to build a responsive and user-friendly interface for seamless interaction.
- Utilized **MySQL** as the RDBMS to store and manage user data, event details, and other critical information. Employed RESTful APIs for efficient communication between the frontend and backend components, ensuring optimal performance and scalability.

Education

Texas Tech University	**Aug 2022 – May 2024**
Master of Science, Computer Science	Lubbock, Texas

R.V.R & J.C College of Engineering	**Aug 2022 – May 2024**
Bachelor of Technology, Mechanical with concentration in C programming, Robotics	India

Certifications

- IBM Full Stack Software Developer
- IBM DevOps and Software Engineering Specialization
- Google IT Support
- Certified as Six Sigma Project – Green Belt.
- Java Certification offered by Hacker Rank.
- SQL Certification by Hacker Rank.