# Ravi Kiran Vadde

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## SUMMARY

Full Stack Developer and Tech Lead with over 5 years of extensive experience in Java, Spring MVC, Spring Boot, and Microservices. Proficient in integrating front-end technologies such as HTML5, CSS3, and JavaScript with RESTful web services and various databases. Adept at collaborating within diverse and dynamic teams, seeking to leverage technical and leadership skills in a professional environment.

## TECHNICAL SKILLS

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| **Programming languages:** | Java 8+, C, Python, SQL. |
| **Java Technologies:** | J2EE, JSP (3.1), JMS, JDBC, JUnit, REST/SOAP, XML. |
| **Web Technologies:** | HTML5, CSS3, JavaScript, ReactJS, Bootstrap, AJAX. |
| **Cloud:** | Spring Cloud, Amazon Web Services. |
| **Design Patterns:** | Singleton, Factory, Facade. |
| **Frameworks:** | Spring, Spring MVC, Spring Boot, Hibernate, Security, Vert.x, Batch, Apache Kafka, Microservices. |
| **Database:** | PostgreSQL, PL/SQL, Oracle, NoSQL DB like MongoDB, Solr search, Sybase. |
| **Testing Tools:** | JUnit, Mockito, Log4J, Mock Framework. |
| **DevOps:** | SonarQube, GitHub, Jenkins, Maven3.9.x, Kubernetes, Graylog. |
| **SDLC Methodologies:** | Waterfall, Agile, Scrum, Lean. |

## PROFESSIONAL EXPERIENCE

**Java Developer - Intern || Denken Solutions Inc.|| Irvine, CA, US**                    **Jun 2024 – Till Date**

- Integrated the MedSquirrels application using **RESTful** APIs and conducted thorough backend API testing using tools like **Postman** to ensure seamless integration and functionality.
- Implemented **OAuth** authentication and role-based access control (RBAC) to enhance data security and user privacy, ensuring compliance with university standards.
- Spearheaded performance testing efforts by optimizing code, implementing caching strategies, and refining database queries, resulting in a 20% reduction in response times.
- Established CI/CD pipelines with Jenkins and GitLab CI/CD to automate build, testing, and deployment processes, boosting efficiency and release frequency.

**Backend Developer - Graduate Assistant || Texas Tech University || Lubbock, TX, US   Jan 2023 – May 2024**

- Engineered software applications using Java 8, Spring MVC, Spring Boot, and Microservices.
- Merged front-end technologies such as HTML, CSS, JavaScript, and ReactJS with RESTful web services resulting in a 30% improvement in user interface responsiveness and user experience.
- Created detailed technical documentation and conducted training sessions for university staff on testing methodologies and best practices, facilitating smoother adoption of testing processes.
- Created and deployed RESTful web services using Java and Spring Boot and worked with databases like Oracle and SQL.

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

- Led the development of a B2C Back & Front office retail app to enable customers to quickly and conveniently place orders of customized Vehicles & Upfits there by which increased customer base by nearly 25 %.
- Designed new **REST**-based web service operations and existing web services, ensuring scalability and performance.
- Re-architected and rebuilt existing applications using **Java 8**, Spring Boot, **AWS**, PostgreSQL, and Maven for improved scalability.

- Used various J2EE design patterns, like DTO, DAO, Business Delegate, Session, **Facade**, **Singleton**, and **Factory** patterns with the help of Hibernate ORM.
- Orchestrated lightweight business components and integrated applications with the **Spring framework** (4.2.3), 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**.
- Utilized **Apache Kafka** for asynchronous messaging services in microservices-based applications, ensuring reliable and scalable communication.
- Elevated a complex **multi-module microservice** structure comprising 41 modules into a clean single module microservice architecture, reducing the risk of service breakage by 60%.
- Integrated **XML**-based configurations in Spring Framework to manage application components and dependencies, enhancing modularity and configurability.
- Configured and managed various AWS Services, including **Lambda**, EC2, RDS, **S3**, CloudFront.
- Simplified 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, India**            **May 2019 – Dec 2019**
- Constructed and implemented **JUnit** test cases and performed both unit and integration testing for the application, achieving 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%.
- Monitored and analyzed application logs using GitLab, improving debugging efficiency and facilitating quicker resolution of issues by 30%.
- Formulated complex SQL queries for data testing and performed validations on large databases and ETL processes, reducing data processing time by 35% and improving data accuracy by 20%.

## ACADEMIC PROJECTS

**Fleet Xpress (GitHub)**
- Boosted fleet management efficiency by 40% through effective use of **Spring MVC**, Spring IoC, and **Spring Transaction management**, reducing manual intervention and operational delays.
- Enhanced data integrity and retrieval speed by 50% with the integration of **PostgreSQL** and Hibernate **ORM**, enabling faster access and manipulation of extensive fleet data.

**Event Management (GitHub)**
- Amplified event planning and execution efficiency by 35% through a user-friendly React.js interface and streamlined backend processes with Spring Boot and **RESTful** APIs.
- Attained secure and reliable data handling with 99.9% uptime by implementing **Spring Security** and **MySQL**, ensuring consistent and safe user and event data management.

## EDUCATION

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| **Texas Tech University** | **Aug 2022 – May 2024** |
| Master of Science, Computer Science | Lubbock, Texas |
| **R.V.R & J.C College of Engineering** | **Aug 2015 – May 2019** |
| Bachelor of Technology, Mechanical with concentration in C programming, Robotics | India |

## CERTIFICATIONS

- Oracle Cloud Data Management 2023 Certified Foundations Associate
- IBM Full Stack Software Developer (Badge)
- IBM DevOps and Software Engineering Specialization (Badge)
- Google IT Support (Badge)