

RAVI VARMA GOTTUMUKKALA

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PROFESSIONAL SUMMARY

Software Engineer with 5 years of experience specializing in building scalable, high-performance web applications using Java, Spring Boot, React, and Angular. Proficient in designing RESTful APIs and implementing CI/CD pipelines for seamless development, testing, and deployment. Adept at leveraging cloud infrastructure such as AWS to deliver robust solutions. Experienced in Agile methodologies and well-versed in the full SDLC process to ensure efficient project execution.

EXPERIENCE

Software Development Engineer – Albertsons – *Plano, Texas* **June 2023 - Present**

- Designed and implemented microservices using Java and Spring Boot, and deployed RESTful web services, reducing API response times by 60% and improving overall system performance.
- Leveraged AWS technologies (EKS, ECS, Lambda, DynamoDB, S3, EC2) for designing and deploying scalable cloud solutions. Managed both public and private cloud infrastructures.
- Architected and deployed a responsive ReactJS UI that adapted in real-time to user actions, elevating the user experience and driving a 30% increase in customer retention rates.
- Developed Kafka-based pub/sub messaging systems and engineered an event-driven architecture, enabling seamless microservice integration and boosting system performance.
- Utilized Docker for containerization and Kubernetes for orchestration, streamlining deployments and reducing manual intervention.
- Set up CI/CD pipelines with Jenkins, employing TDD and BDD using JUnit, TestNG, and Cucumber. Automated build processes, cutting down build time by 40%.
- Enhanced SQL performance by restructuring queries and indexing, reducing query time by 40%.
- Implemented microservice patterns like Circuit Breaker, API Gateway, and Service Discovery to enhance reliability and minimize service outages.
- Developed and integrated end-to-end POCs, including OAuth, SAML, and AWS Glue related projects, and implemented RESTful APIs, thoroughly documented with Swagger, decreasing the customer support tickets related to API usage.
- Integrated automated tests into CI/CD pipelines, improving system stability and reducing manual testing. Spearheaded the implementation of JUnit test cases, reducing critical bugs and improving software reliability.
- Conducted design discussions, code reviews, and bug RCA meetings, ensuring high-quality software delivery across multiple repositories, managed through Git.
- Developed a component to integrate JIRA for project management features, improving workflow efficiency.

Application Development Engineer – *Tata Consultancy Services – India* **November 2020 - August 2022**

- Built an internal invoicing application using Angular for the front end and Spring Boot with Java for the back end, ensuring high performance and scalability.
- Developed 20+ RESTful web services required for the project, enhancing transaction efficiency between the front end and back end.
- Crafted end-to-end applications, implementing RESTful web services with Spring Boot and Spring MVC.
- Constructed DAO classes utilizing Spring and Hibernate/JPA to enhance database efficiency; deployed data persistence strategies that slashed query execution time by 50% and enhanced data integrity.
- Utilized front-end development tools like npm and Gulp to automate builds and optimize the codebase. Hosted the application on Red Hat JBoss Server, connecting to the database and enabling efficient data fetching.
- Created PL/SQL Stored Procedures and Functions for the DAO layer based on analysis of required business objects, ensuring validation using the Oracle database.
- Developed microservices to process messages into the Kafka cluster setup, enhancing the scalability of the system.

- Devised a robust set of JUnit test cases to methodically validate code functionality, yielding a 25% decrease in software defects and a 20% enhancement in overall code performance.
- Engineered UI rendering in ReactJS based on user interactions, resulting in a 40% reduction in page load times and a 35% increase in user engagement.
- Orchestrated integration of Java APIs like Collections and Multithreading to develop scalable solutions, resulting in a 50% improvement in system responsiveness and a 20% increase in stability.
- Optimized build processes using Gradle, achieving a decrease in time-to-deploy for critical updates and ensuring faster delivery of new features.
- Implemented a comprehensive bug tracking system using Jira, which decreased bug resolution time.

Software Engineer – HCL Technologies – India

April 2019 - November 2020

- Worked on microservices architecture, developing and deploying microservices, and implementing new functionalities using Spring Boot.
- Developed RESTful APIs for efficient communication between microservices, improving application integration.
- Integrated Google Cloud Platform (GCP) services for deployment and scalability, like Cloud SQL for database management and Cloud Storage for file management.
- Developed unit and integration tests to ensure high code quality, using on JUnit and Mockito for effective testing strategies and achieving over 90% test coverage
- Integrated MySQL databases with JDBC for efficient data handling, optimizing queries to improve response times.
- Collaborated with cross-functional teams in Agile practices, participating in daily stand-ups and sprint planning. Managed tasks using Jira, tracking progress and issues to ensure timely completion.

PROJECTS

MOOD BASED MUSIC RECOMMENDATION SERVICE

January 2024

- Built a real-time website using Angular and RxJS, achieving 95% accuracy in detecting user emotions and curating playlists from a 500+ track library via Spotify and Amazon Rekognition APIs, with a response time under 2 seconds. Deployed on AWS Elastic Beanstalk with Docker and Kubernetes, achieving 99.9% uptime and supporting 200+ users. Automated CI/CD pipeline cut build and deployment time by 50%, enhancing scalability and version control.

E-COMMERCE PLATFORM

March 2023

- Developed a full-stack e-commerce platform (Angular, Spring Boot) that uses Elasticsearch for product search and hosted on AWS (S3, CloudFront, Route 53). The backend was deployed on AWS EC2 using VPC, ALB, and security groups, with deployments automated using GitHub Actions.

TECHNICAL SKILLS

- **Languages:** Java, C, Python, j2EE
- **Frameworks:** Spring, Spring Boot, Hibernate
- **Web Technologies:** HTML, CSS, Bootstrap, AngularJS, ReactJS, NodeJS, JavaScript, JSON, jQuery
- **Databases:** MYSQL, Firebase, MongoDB, Oracle DB, PostgreSQL, Dynamo DB, Amazon RDS
- **AWS:** EC2, Auto scaling, Docker, IAM, VPC, SNS, Lambda, Glue, Elastic cache, Security Groups, DNS, Route53, RDS, Dynamo DB, API Gateway, Cloud Watch, Athena, RedShift
- **IDE Tools:** Android Studio, Visual Studio, Eclipse, IntelliJ IDEA, NetBeans IDE
- **Methodologies:** Agile, Scrum, TDD (Test-Driven-Development)
- **J2EE Technologies:** Servlets, JSP, JDBC, JUNIT, Maven, Multi-threading
- **Web/Application Servers:** Red Hat JBoss, Apache Tomcat, WebLogic, Jetty
- **Other Tools:** MySQL Workbench, JIRA, GitHub, Maven, Postman, Putty, GCP

EDUCATION

Master's in Computer Science – University of Maryland Baltimore County

Bachelor of Technology – Andhra University, India

CERTIFICATIONS

- **AWS Certified Developer – Associate.**