

RAVI VARMA GOTTUMUKKALA

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San Jose, California

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EXPERIENCE

Full Stack Engineer

Equinix (Contract)

February 2025 - Present

Amiseq - USA

- Owned development of backend services and REST APIs using **Java** and **Spring Boot** to support core network provisioning and management workflows.
- Implemented **Spring Batch** jobs to process millions of records for product migrations and data onboarding.
- Built a **generic configurable validation engine** to verify input data, reduce processing errors, and improve workflow reliability.
- Implemented event-driven integrations using **Kafka** and **RabbitMQ** for asynchronous communication between multiple services.
- Managed workflow orchestration for product provisioning and reservation using **Temporal Workflows**, handling retries and failure scenarios.
- Improved system performance and reduced latency using **Redis** caching and elastic search queries.
- Implemented real-time communication using **WebSockets** and **Reactive** APIs to support live updates.
- Developed and maintained **React-based micro frontends**, and integrating them with backend APIs.
- Built a generic notification engine using **SMTP** and **Slack APIs** to send updates for business workflows.
- Contributed to application monitoring by capturing metrics, storing data in **Elasticsearch**, and building dashboards in **Grafana** to track system performance and usage.

Application Developer

Graduate Assistant

June 2023 – February 2025

University of Maryland - USA

- Developed Java-based microservices and RESTful APIs using **Spring Boot** for research and internal projects, focusing on modular and maintainable code.
- Built front-end interfaces using **ReactJS** for internal dashboards and interactive prototypes, improving usability for team demos.
- Implemented **Kafka-based pub/sub** event messaging for reliable data flow between services.
- Explored microservice patterns like **Circuit Breaker** and **API Gateway** in small-scale projects to understand reliability and fault tolerance.
- Created POCs for AWS-based integrations and documented APIs using **Swagger** to support team knowledge sharing and collaboration.

Application Development Engineer

November 2020 – August 2022

Tata Consultancy Services – India

- Developed an internal invoicing application using **Angular** and **Spring Boot** with Java, ensuring performance, scalability, and responsiveness.
- Designed RESTful APIs and implemented custom auditing mechanisms using **Hibernate/JPA** and **PL/SQL** on **Oracle**, improving transaction efficiency and data integrity by 30–50%.
- Built microservices to process messages into a **Kafka** cluster, enabling asynchronous communication and scalable system integration.
- Engineered front-end interfaces in **ReactJS** for better user interaction and reduced page load times.
- Automated builds and deployments using **Gradle** and **Jenkins**, integrating unit and integration tests with **JUnit** and **Mockito** to maintain code quality.
- Orchestrated Java APIs, multithreading, and collections to improve application stability and responsiveness.
- Participated in code reviews, bug tracking with **Jira**, and production support to ensure reliable delivery across multiple modules.

TECHNICAL SKILLS

- **Languages & Frameworks:** Java, Python, Spring Boot, Spring Batch, ReactJS, Angular, PL/SQL
- **Cloud & Infrastructure:** AWS (EKS, ECS, Lambda, EC2, S3, DynamoDB), Kafka, RabbitMQ
- **DevOps & CI/CD:** Jenkins, GitHub Actions, Docker, Kubernetes, Maven
- **Monitoring & Tools:** Grafana, Elasticsearch, Jira, Postman

EDUCATION

Master's in Computer Science

Bachelor of Technology

University of Maryland Baltimore County

Andhra University, India

CERTIFICATIONS

AWS Certified Developer – Associate