

Ramu Molankula

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Summary

Software Developer with a strong focus on backend development and system performance optimization. Experienced in contributing to large-scale projects, improving efficiency, and enhancing system functionality. Skilled in Java, Spring Boot, microservices architecture, and tools like Kafka, RabbitMQ, and Docker. Developed a Spring Boot microservice for the UPI simulation system, processing 5,000+ transactions per second and reducing latency by **40%**, resulting in alignment with NPCI standards.

Skills

· Java, Spring Framework, Spring Boot, Spring Integration, Restful, MVC, Hibernate, MySQL, PostgreSQL, MariaDB
· Monolithic & Microservices, Message Queues, Kafka, RabbitMQ, ActiveMQ, HTML, CSS, Angular, JavaScript, React
· Gradle, Maven, GitHub, BitBucket, AWS, Redis, SonarQube, SOA, SOAP, XML, JSON, CI/CD, Jenkins, Docker, Kubernetes, Splunk, OpenAPI, Swagger, Data Structures, Payment Gateway Integration, Third Party API Integration

Experience

Olive Crypto Systems Pvt Ltd (National Payments Corporation of India)

Software Development Engineer

India, Hyderabad

March/2021 - April/2025

UNIFIED PAYMENT INTERFACE [UPI]

- Contributed to the development of a UPI simulation system, ensuring alignment with NPCI standards from UAT to production, and achieving a **98%** success rate with improved API workflow clarity.
- Built a data-driven certification process that increased scenario coverage by **40%** and cut certification time to 1 week.
- Executed 100+ transaction scenarios for switch testing using a real-time sample bank, achieving **85%** accuracy in critical flows and supporting on-time certification for banks.
- Integrated Spring Boot microservices with RabbitMQ to automate certification workflows, reducing manual efforts by **40%**.

INTERNATIONAL UNIFIED PAYMENT INTERFACE (IUPI)

- Supported the rollout of a global UPI simulation tool used by 20+ international partners to explore real-time remittance APIs and process flows efficiently.
- Streamlined certification workflows, reducing integration time by **50%** and enabling full API understanding within a week.
- Engineered a real-time international remittance simulator and testing framework facilitating API/application flow comprehension for partners like Lyra and TerraPay; cut partner integration time by 40
- Developed RESTful APIs using Spring Boot and Kafka to simulate high-volume remittance traffic for partner certification.
- Collaborated with international partners to optimize API performance, identifying and resolving latency issues, resulting in a **25%** reduction in response times during partner integrations.

PALS (INDIA) PVT LTD

Java Developer

India, Hyderabad

Feb/2019 - Feb/2020

- Development of backend modules with Java, Servlets, and JDBC for creating web applications.
- Implementation of server-side logic for user requests and database operations with MySQL.

Achievements

Collaboration and Certification Excellence: Forged key partnerships with UPI institutions and global leaders like TerraPay and Lyra, boosting onboarding efficiency by **30%**. Implemented rigorous quality control, audits, and inspections, improving product quality and customer satisfaction by **25%**.

Certification and Development Impact: Key contributor to Nfinite's UPI and ongoing IUPI projects since June **2021**. Innovated a robust certification approach, collaborating with banks, resolving API issues, and leading process re-engineering for a **75%** efficiency boost.

Education

Kakatiya University

B.Tech in Information Technology

India, Warangal

2016 - 2020