Sparsh Raj

Software Development Engineer II

Bengaluru, India

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Summary

Software Engineer with 2.5+ years of experience building scalable, distributed backend systems using Java (8/17/21), Spring Boot, and microservices. Google Cloud and Oracle Cloud certified, with hands-on experience designing cloud-native architectures in travel, hospitality and fintech domains, emphasizing performance, reliability, and system design.

Experience

Sabre Corporation — Software Development Engineer II (Backend)

Jan 2023 – Present

- Migrated core reservation workflows to Google Cloud Platform, improving observability, operational resilience, and production reliability.
- Designed and integrated an Air France subscription validation service using Java 17, Spring Boot, REST, gRPC, Pub/Sub, and internal MQ systems.
- Implemented resiliency patterns and fine-tuned concurrency for high-volume, latency-sensitive execution paths.
- Designed and executed performance test suites (stress, spike, soak) using JMeter to validate release readiness under production-scale loads.

Yubi (CredAvenue) — Software Development Intern

May 2022 – Dec 2022

- Developed backend services for the YubiBonds fintech platform using Ruby on Rails, focusing on reliability and maintainable design.
- Built an event-driven email notification pipeline using AWS messaging services for trade and inventory events.
- Improved trade and inventory workflows through test-driven development, refactoring, and code quality enhancements.

CYSCOM VIT Chennai — Chapter Lead (Cybersecurity Community)

Dec 2019 - Nov 2022

- Led an AICTE-recognized cybersecurity community with 1200+ contributors, organizing hackathons, workshops, and CTF mentoring programs.
- Mentored 200+ members on cybersecurity fundamentals, problem solving, and competitive security challenges.

Projects

Unified Marketing Gateway

Java — Spring Boot — Kafka — Webflux

- Built a state-driven, idempotent notification platform supporting Telegram, WhatsApp, and SMS, with Kafka-backed durable ingestion, delivery tracking, and reconciliation.
- Implemented state-driven fan-out, retries, and fallback routing to ensure reliable, duplicate-free message delivery.
- Added metrics and observability to track ingestion lag, latency, failures, and delivery states.

Smart Waste Management

AWS IOT — Nodejs — NodeRed — MQTT

- Built an IoT-based monitoring platform using sensor-enabled bins publishing data via AWS IoT (MQTT) for real-time visibility.
- Designed lightweight MQTT topics and payloads for reliable, low-bandwidth device communication.

Skills

Languages: Java (8/17/21), Ruby, C/C++
Frameworks: Spring Boot, Microservices, gRPC
Cloud: Google Cloud Platform (GCE, GKE, Pub/Sub, Spanner), Oracle Cloud Infrastructure
Databases: PostgreSQL, Cloud Spanner
Tools: Git, GitHub Actions, Jenkins, Docker, Linux

Certifications

OCI Architect Associate   —   Nov 2025 - Nov 2027
Google Cloud Associate Cloud Engineer   —   Nov 2024 - Nov 2027

Education

B.Tech in Computer Science and Engineering

Vellore Institute of Technology

2019 – 2023   —   CGPA: 9.0