

# SPARSH RAJ

Software Development Engineer II

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## SUMMARY

Google Cloud & Oracle Cloud Certified Software Engineer with 2.5 years of full-time experience and 1.5 years of internship experience in building scalable, distributed, and modular systems. Specialized in backend development using Java (8/17), Spring Boot, and Ruby on Rails. Experienced in the travel tech and fintech domains with a strong interest in cybersecurity and system design. Adept at leveraging GCP, microservices, and modern development practices to deliver robust and performant applications.

## PROFESSIONAL EXPERIENCE

### Software Engineer II (Intern + FTE)

Sabre Corporation | Jan'2023 - Present

- Contributing to distributed and scalable product enhancements using Java 8/17, GCP (GCE, Pub/Sub), and Spring Boot, with a focus on concurrency, resiliency, and automated CI/CD pipelines using GitHub Actions.
- Developed a robust service to validate and retrieve Air France subscription card details by integrating REST, gRPC, Pub/Sub, and MQ endpoints.
- Worked on the GCP migration project for the reservation segment, implementing reactive programming patterns and Java 17 streams for performance improvements.
- Designed and executed performance test strategies (stress, spike, and soak testing) using JMeter to ensure application stability under varying load conditions.

### Software Development Intern

Yubi | May'2022 - Dec'2022

- Developed client user type flow and inventory management services as a Ruby on Rails developer for YubiBonds' initial platform production release.
- Designed and developed an email notification service by integrating AWS Messaging Service.
- Implemented Test-Driven Development (TDD) for the trade management service by creating foundational unit test cases.

### Chapter Leader

CYSCOM VIT Chennai (AICTE Recognized) | Dec'2019 - Oct'2022

- Leading a student community of cybersecurity enthusiasts with more than 1200 contributors.
- Conducted various hackathons and technical events.
- Recruited and mentored over 200 active members in cybersecurity through Capture The Flag (CTF) solving sessions..

## CERTIFICATIONS

### OCI Architect Associate

Oracle Cloud Infrastructure | Oct'2025

### Associate Cloud Engineer

Google Cloud Certified | Nov'2024

## PROJECTS

### Unified Marketing Gateway

Backend Platform | Spring Boot

- Built a reactive marketing gateway with Telegram integration using Spring WebFlux, featuring async pipelines, rate-limited execution, and exponential-backoff retries.

### Smart Waste Management

Nodejs | Nodered | AWS IOT

- A smart system which segregates wastes based on their composition and enables real time monitoring of bins and notification.

## SKILLS

- Springboot
- Java
- C/C++
- Ruby on Rails
- Postgresql
- GCP & OCI
- Git/Bitbucket
- Jenkins
- Redis
- Linux/Ubuntu

## EDUCATION

### Vellore Institute of Technology

B. Tech in CSE with CPS  
9.0 CGPA | 2019 - 2023

### Delhi Public School, B.S.City

93.4% in CBSE board | 2019