

JAYPAL KOLI

+91 9172230125 kolijaypal77@gmail.com github.com/Jaypal07 linkedin.com/in/jaypal-koli

Java Backend Engineer — Spring Boot — Microservices — REST APIs

SUMMARY

Backend Engineer with production experience in **Java 17, Spring Boot, REST APIs, and microservices**. Developed and maintained backend services for an internal Jio Platforms QA platform used by approximately **100 users across 5 QA teams**. Worked on **2 microservices and 12 REST APIs**, including Kafka-based asynchronous notification processing and integration with an AI-based duplicate detection service through OpenFeign, contributing to a **40% reduction in duplicate bug reports**. Experienced with **Spring Security, JWT, RBAC, JPA/Hibernate, PostgreSQL, MySQL, SQL, and transaction management**, with working exposure to **Kafka, Redis, Docker, AWS EC2, concurrency, and distributed-system concepts**.

TECHNICAL SKILLS

Languages: Java 17, SQL

Backend: Spring Boot, Spring MVC, REST APIs, Microservices, Spring Security, AOP

Spring Cloud: API Gateway, OpenFeign, Service-to-Service Communication

Messaging: Apache Kafka, Event-Driven Architecture, Asynchronous Processing

Security: JWT, OAuth2, RBAC, Rate Limiting, Token Lifecycle Management

Databases: PostgreSQL, MySQL, JPA/Hibernate, Transactions, Indexing, JSONB

Caching & Infrastructure: Redis, Docker, AWS EC2, Linux (Basic)

Development Tools: Git, Maven, Postman, Swagger/OpenAPI

Testing: JUnit, Integration Testing

Concepts: Concurrency, Data Consistency, Fault Tolerance, Scalability, System Design (HLD/LLD)

EXPERIENCE

Jio Platforms Limited — Backend Engineer (Java, Spring Boot)

Jan 2024 – Aug 2026

Backend service development and reliability engineering within the QA organization

Navi Mumbai, India

- Developed and maintained **2 backend microservices and 12 REST APIs** for an internal Jio Platforms QA platform used by approximately **100 users across 5 QA teams**.
- Implemented **Kafka-based asynchronous event processing** for notification workflows, enabling backend operations to be processed asynchronously.
- Integrated an **AI-based duplicate detection service built with Python FastAPI** through OpenFeign, contributing to a **40% reduction in duplicate bug reports**.
- Developed and maintained **authentication, bug management, and notification services** with secure REST APIs using **JWT and RBAC**.
- Investigated and resolved **race conditions, validation gaps, and failure scenarios**, helping improve backend reliability and reduce production issues.
- Contributed to **API design, service-to-service communication, API testing, and failure-handling strategies** within the microservices environment.

PROJECTS

Scalable Identity & Access Management (IAM) System

Spring Boot, Spring Security, JWT, OAuth2, PostgreSQL, Redis, Docker, AWS EC2

- Implemented **JWT-based authentication with refresh-token rotation** for secure session and token lifecycle management.
- Built **Redis-based token-bucket rate limiting** to help protect APIs against excessive requests and abuse scenarios.
- Containerized the application using **Docker** and deployed it on **AWS EC2** in a production-like environment.

Transactional Order Processing System

Spring Boot, PostgreSQL

- Developed backend services for **product, cart, and order workflows** using clean architecture principles.
- Implemented **transactional order placement** with concurrency controls to maintain inventory consistency during concurrent requests.
- Implemented failure-handling approaches focused on **transaction consistency and reliable order processing**.

EDUCATION

Bachelor of Engineering (Computer Science)

2023

RC Patel Institute of Technology, Shirpur, India