

# Rohit Singh

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[Portfolio](#) | [github.com/imrohit68](https://github.com/imrohit68) | [linkedin.com/imrohit68](https://linkedin.com/imrohit68) | [linkedin.com/imrohit68](https://linkedin.com/imrohit68)

## Skills

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**Languages:** Java, SQL

**Technologies & Tools:** Spring Boot, Spring Data JPA, Spring Security, Hibernate, RabbitMQ, Kafka, Docker, Kubernetes, Jenkins, AWS, GitHub Actions, MySQL, PostgreSQL, MongoDB, Liquibase, WebSocket, WebRTC

**Concepts:** Object-orientated programming, Backend Development, DevOps, Microservices

## Work Experience

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**Go Smart Fintools**

Sep 2024 - Current

Backend Developer

Contributed to a financial loan management platform by developing APIs for validation, report generation, and backend optimisation. Enhanced performance and streamlined processes for efficient data handling and processing.

## Projects

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### 1. E-commerce Printing Backend – Spring Boot & AWS | [Code](#) | [Live](#)

- Developed a robust end-to-end backend for an E-commerce Printing Platform using Spring Boot, PostgreSQL, and AWS. Designed and implemented RESTful APIs for user authentication, store registration, order placement, and payment processing. Integrated OTP-based login with JWT authentication for secure access control. Managed document storage and retrieval using AWS S3, ensuring efficient file handling. Enabled seamless payment transactions through Razorpay, supporting multiple payment methods. Optimised database interactions with Spring Data JPA for efficient order and user management. Deployed the application on AWS EC2.

### 2. Real-Time Collaborative Code Editor with WebSocket Integration | [Code](#) | [Live](#)

- Engineered a collaborative code editor backend using Spring Boot and WebSocket, implementing real-time code synchronisation across multiple users. Built a robust architecture using Spring's @MessageMapping for WebSocket communication and RESTful endpoints for code history retrieval. Implemented concurrent session management using ConcurrentHashMap to handle multiple collaborative rooms, ensuring thread-safe operations for simultaneous user interactions.

### 3. Demonstrating Microservice Architecture using Spring Boot Framework | [Code](#) | [Live](#)

- Developed a scalable microservices project with Spring Boot, focusing on clean architecture and containerisation for flexibility and performance. Used Spring Cloud Eureka for service discovery, Keycloak with OAuth 2.0 for security, and Resilience4j for fault tolerance. Integrated Loki, Prometheus, and Tempo for monitoring and tracing, and implemented RabbitMQ with Spring Cloud Function for event-driven architecture. Achieved seamless scalability using Docker and Kubernetes for container orchestration and efficient resource management.

### 4. Delegated YouTube Content Manager | [Code](#) | [Live](#)

- Developed a solution to simplify video management on YouTube, enabling channel owners to delegate video uploads to authorised editors with an approval workflow to ensure content aligns with channel guidelines. Added features like automated video preview generation and notification workflows for approval. Secured the application using encrypted access tokens and JWT for endpoint protection. Implemented a video review mechanism for quality control and adherence to guidelines. Configured CI/CD pipelines with GitHub Actions for seamless testing and deployment and documented APIs using Swagger UI for clear developer communication.

## Education

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**BVDU COEP, Pune**

Aug 2021 - Jun 2025

B.Tech. in Electronics and Tele-Communication Engineering

**CGPA: 8.51/10**

Relevant Coursework: Object Oriented Programming, Databases, Discrete Maths, Data Structures and Algorithms, Computer Networks, Machine Learning, Internet of Things, Embedded Systems, Data Science

## Awards and Certificates

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- Master Microservices with SpringBoot, Docker, Kubernetes** on Udemy
- Spring Security** on Udemy
- Fundamentals of Database Engineering** on Udemy
- DevOps Beginners to Advanced with Projects** on Udemy