

Saurav Suman

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Professional Summary

Software Engineer with experience designing scalable distributed systems using Java, Spring Boot, OOP principles, and design patterns. Skilled in REST APIs, microservices, SQL optimisation, Kafka, virtualisation using Docker/Kubernetes, CI/CD pipelines, and automated testing frameworks. Strong background in solving complex analytical problems.

Technical Skills

- **Languages:** Java, C++, Python, SQL, Bash, HTML/CSS/JavaScript (basic)
- **Backend:** Spring Boot, REST APIs, Microservices, WebSockets, API Gateway
- **Testing:** JUnit, Mockito, Unit/Integration Testing, Postman, Swagger, SonarQube
- **DevOps:** Docker, Kubernetes, Jenkins, Nexus, AWS, EC2
- **Data:** PostgreSQL, Kafka, Doris
- **Architecture:** HLD, Design Patterns (Factory, Singleton, Strategy, Observer)
- **Tools:** Git, Maven, Jenkins, JIRA, Wikis, CI/CD Pipelines

Experience & Key Projects

Software Engineer — Onextel, Pune

Jul 2024 – Present

- Designed and developed Java-based microservices for WhatsApp & RCS messaging platforms, applying OOP principles and design patterns (Factory, Strategy) to build extensible template management and message orchestration logic.
- Engineered backend API workflows using Spring Boot, integrating services with internal gateways and external communication providers while ensuring modular code and LLD alignment.
- Implemented unit and integration tests using JUnit and improved overall reliability and automation coverage following TDD practices.
- Designed real-time messaging flows with Kafka, PostgreSQL, and event-driven systems achieving sub-200ms response times for high-throughput workloads.
- Contributed to HLD/LLD documentation, API schemas, and reusable library components for message routing, service orchestration, and backend optimisation.
- Automated CI/CD pipelines for builds, Docker-based deployments, artifact publishing and production workflows, reducing deployment time by 70%.
- Collaborated in Agile/Scrum teams using JIRA and Confluence for sprint planning, documentation, requirement refinement, and cross-functional delivery.

Side Project

AI-Powered Jenkins Failure Analyzer

Python, FastAPI, RAG

- Built a GenAI-based troubleshooting agent using Python and RAG workflows to analyse Jenkins logs and produce real-time diagnostics.
- Designed semantic search pipelines with embeddings, vector indexing, and structured error summarisation.
- Delivered a FastAPI backend orchestrating retrieval, reasoning, scoring, and automated failure reporting.

Education

National Institute of Technology, Silchar

2020 – 2024

- B.Tech. in Electronics and Instrumentation Engineering | CGPA: 8.33/10

Jawahar Vidya Mandir, Shyamali

2017 – 2019

- Intermediate in Science (ISc) | Percentage: 89.6