

# HRITIK SINGH

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## SUMMARY

Software Engineer specializing in full-stack systems using **Java, Spring Boot, Angular, and Oracle SQL**. Experienced in building **secure microservices**, optimizing backend performance, and automating inventory workflows. Hands-on with **GenAI (LLM + RAG chatbot)** with a focus on **scalable, production-grade application design**.

## TECHNICAL SKILLS

**Languages:** Java, Python, JavaScript, SQL, Bash

**Backend/Frameworks:** Spring Boot, Spring Security (JWT), Hibernate/JPA, REST APIs, Microservices, RBAC, Angular

**Database:** Oracle, MySQL, MongoDB

**AI/GenAI:** LLM Integration, RAG, LangChain, Hugging Face, Embedding Model (MiniLM-L6-v2), Vector DB (Qdrant), Prompt Engineering, RLHF

**DevOps & Cloud:** Git/GitHub, Maven, Postman, Jira, Docker, AWS

## PROFESSIONAL EXPERIENCE

### Software Developer

Jan 2025 - Present

Bosch Global Software Technologies (BGSW), Hyderabad

- Orchestrated end-to-end **Procurement, Inventory, Supplier, and Production** workflow modules for real-time stock visibility and automated order lifecycle (PO creation, supplier mapping, inventory validation, progress tracking).
- Designed and optimized **REST APIs** within a **microservices architecture**, improving backend response time by **25%**.
- Developed secure enterprise modules with **role-based access control** and **JWT authentication** using **Spring Security**.
- Leveraged **Hibernate (JPA)** for optimized ORM mapping, improving entity relationship efficiency and ensuring reliable high-performance interaction with **Oracle SQL**.
- Deployed **AI/ML-based demand forecasting modules** using historical sales data and seasonal trends, improving **restocking accuracy by 30%**.
- Implemented **predictive replenishment logic** to automate inventory decisions, reducing **overstocking and stockout scenarios by 40%**.
- Integrated an **LLM + RAG chatbot assistant** into the application for workflow Q&A using enterprise data; improved response relevance by **65%** and reduced onboarding/support effort by **20%**.
- Collaborated with cross-functional teams in an **Agile Scrum** environment using **Jira**, contributing to sprint planning, daily standups, and timely delivery of **production-ready** modules within strict deadlines.

### Engineer 1

Jul 2024 - Jan 2025

Vivo Mobile India Pvt. Ltd., Greater Noida

- Delivered scalable backend services using **Spring + JPA/Hibernate** with **DTO-Service-Repository** architecture.
- Accelerated **Oracle SQL** performance through query tuning and indexing, improving database/API performance by **40%**.
- Standardized robust **API validation + exception handling** using **GlobalExceptionHandler** and custom errors, improving backend reliability and reducing failures by **35%**.

## TECHNICAL PROJECTS

### Biometric-Based Transaction Device (Final Year Engineering Project)

**Tech Stack:** Arduino, R307 Fingerprint Sensor, ESP8266, Java, Spring Boot, Oracle DB, Python (Anomaly Detection)

- Designed a fingerprint-based cashless payment system enabling secure, contactless transactions, reducing processing time by **35%**.
- Implemented a behavioral anomaly detection module with a real-time monitoring dashboard using **Spring Boot** and **Oracle DB** to flag unusual transaction activity.

## EDUCATION

### Bachelor of Technology in Electronics & Communication Engineering

Aug 2019 - Jul 2023

G.L Bajaj Institute of Technology and Management

**CGPA: 7.8**

## CERTIFICATIONS

- Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate** – Oracle University (2025) ([Certificate](#))
- Advanced Computing & Software Development Training** – Centre for Development of Advanced Computing (C-DAC), Noida (2022)