

# 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 (Sentence-Transformers), Vector DB (Qdrant), Prompt Engineering, LLM Fine-tuning Concepts

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

## PROFESSIONAL EXPERIENCE

### Software Developer

Bosch Global Software Technologies (BGSW) – A Bosch Group Company, Hyderabad

Jan 2025 - Jan 2026

- Designed **REST APIs** in a **Spring Boot**-based microservices architecture, reducing backend response time by **25%**.
- Enhanced API security by implementing **CAPTCHA validation** alongside **JWT-based authentication** using **Spring Security**, reducing automated bot login attempts and unauthorized access by **40%**.
- Optimized database interactions using **Hibernate (JPA)** with **Oracle SQL**, improving query performance and reducing average API latency by **25%**.
- Integrated an **LLM + RAG chatbot assistant** into the application for workflow Q&A using enterprise data, improving response relevance by **65%** and reducing onboarding/support effort by **20%**.
- Collaborated within an **Agile Scrum** team using **Jira**, contributing to sprint planning and delivering features with a **95%+ sprint completion rate**.

### 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

### OrderCraft – AI-Enabled Inventory & Order Management Platform ([Project Overview](#))

**Tech Stack:** Java, Spring Boot, Spring Security (JWT), JPA, Oracle DB, Angular, Sentence-Transformers, Qdrant, OpenAI

- Architected and developed a full-stack order and inventory system supporting end-to-end workflows, real-time stock visibility, and secure role-based operations, boosting processing productivity by **40%**.
- Developed an **LLM + RAG chatbot** using **FastAPI, Sentence-Transformers, Qdrant, and OpenAI**, integrated with backend APIs to deliver context-aware answers from live system data, reducing manual data lookup effort by **35%**.

### Biometric-Based Transaction Device

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

- Built a fingerprint-based cashless payment system for 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)