

ANJALI SINGH

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PROFESSIONAL SUMMARY

Computer Science and Engineering graduate with hands-on experience **developing and deploying backend applications using Java, Spring Boot, REST APIs, SQL, and database technologies.** Built reliable software through **layered application design, automated unit and integration testing, CI workflows, Docker-based validation, and structured debugging.** Strong foundation in OOP, data structures, DBMS, and problem solving, with **practical exposure to application logging, Generative AI, and cloud-deployed software systems.**

SKILLS

Functional Competencies — Backend Development | REST API Development | Object-Oriented Programming | Java Collections | Exception Handling | Streams & Lambda Expressions | Concurrency Fundamentals | Data Structures & Algorithms | Unit & Integration Testing | Debugging & Troubleshooting | Application Logging | DBMS | CI/CD Fundamentals

Technical Tools — Java 17 | Spring Boot | Spring Data JPA | Hibernate | SQL | MySQL | REST APIs | Maven | JUnit 5 | Mockito | MockMvc | JaCoCo | Swagger/OpenAPI | Docker | Git/GitHub | GitHub Actions | Python

EDUCATION

B.Tech in Computer Science and Engineering

Sharda University

CGPA: 8.1/10

09/2022 – 05/2026 | Greater Noida, India

Senior High School

Sant Atulanand Convent School

Percentage: 86.2%

2020 – 2021 | Varanasi, India

PROJECTS

SmartTask — Cloud-Deployed Task Management REST API 🔗

- **Developed and deployed a database-backed backend application supporting 6 REST API operations** using Java 17, Spring Boot, JPA/Hibernate, DTO validation, and layered controller-service-repository architecture.
- **Achieved 90.91% line coverage, 100% branch coverage, and 22 passing automated tests** by implementing service and controller testing with JUnit 5, Mockito, MockMvc, JaCoCo, and Maven.
- **Automated build and deployment validation through GitHub Actions** by integrating Maven verification, Docker image validation, environment-based configuration, and cloud deployment with persistent database connectivity.

Log Anomaly Detector & Alert Script — Application Monitoring & Analysis 🔗

- **Automated analysis of 5,000 application log events and identified 1,009 reliability signals** by implementing Python-based parsing, configurable detection rules, and structured failure classification.
- **Identified HTTP 5xx failures, slow requests, database timeouts, and severity errors** through threshold-based and time-window analysis, producing structured evidence for application troubleshooting.
- **Validated detection and failure-handling behavior through 18 passing automated tests** while generating structured reports to support debugging and issue diagnosis.

AI-Enabled RAG Knowledge Assistant — Retrieval & Evaluation Pipeline 🔗

- **Built a modular RAG application for technical-support knowledge retrieval** using Python, FastAPI, LangChain, MiniLM, and FAISS with source-aware retrieval and grounded generation.
- **Achieved 100% Hit Rate@5, 100% Recall@5, and 0.92 MRR across a controlled 30-query benchmark** by evaluating semantic retrieval against a deterministic baseline.
- **Validated application behavior through 18 passing automated tests and CI checks** covering ingestion, retrieval, generation, evaluation, and FastAPI workflows using pytest and GitHub Actions.

CERTIFICATIONS

Java Fundamentals — Oracle Academy, Mar 2024

Java Foundations — Oracle Academy, Nov 2023

The Complete 2023 Web Development Bootcamp — Udemy, Oct 2023