

# SAGAR KUMAR

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## Summary

**Backend Engineer** with 2.6+ years of experience in Java, Spring Boot, Microservices, REST APIs, 1.5 YOE Generative AI. Experienced in building scalable backend systems, RAG pipelines and AI-powered solutions using Python, FastAPI, LangChain, LLMs and Pinecone (Vector DB).

## Work Experience

### Samsung SDS — Software Engineer

Dec 2023 – Jan 2025 — Gurugram

- Designed and built a scalable **HRMS** system using Spring Boot and Generative AI-based resume screening (RAG) with an AI chatbot to assist HR teams. Automated resume shortlisting and interview scheduling, reducing manual HR workload by 35%.
- Built and enhanced RESTful APIs connecting HR, Finance, Vendors, and Managers, enabling seamless information flow and faster decision-making.
- Improved existing microservices and implemented multi-level approval workflows, increasing automation and reducing delays in hiring and approval processes by 20%.
- Integrated Python-based Generative AI services using LangChain, vector embeddings, and LLMs to enable semantic resume search and intelligent candidate matching.
- Implemented CI/CD pipelines using Jenkins and integrated SonarQube and Nexus IQ for automated code quality analysis, vulnerability detection, dependency security scanning, and code coverage checks.
- Deployed and managed application services on AWS for scalable and reliable application deployment.
- Built** with Java, Python, Spring Boot, Generative AI, LangChain, FastAPI, Spring Data JPA, REST APIs, MySQL, Redis, JUnit, Jenkins, SonarQube, Nexus IQ, AWS.

July 2022 – Oct 2023 — Gurugram

- Developed a **Billing System** using Spring Boot and React.js to automate the company's monthly billing process, eliminating manual steps and reducing employee workload by 30%.
- Added Bulk Excel Upload & Validation for employee details, project data and timesheet hours, reducing manual input by 40% and lowering errors.
- Implemented server-side validation and error handling for smooth data workflows.
- Collaborated with multiple teams to ensure stable releases and workflow improvements.
- Built** with Java, Spring Boot, React.js, Spring Data JPA, REST APIs, MySQL, Redis, JUnit.

### Samsung SDS — Intern

Feb 2022 – Jul 2022 — Gurugram

- Applied DSA concepts in real backend development tasks.
- Earned Software Competency Advanced certification.

## Technical Skills

- Languages:** Java, Java 8, Python, C/C++, React.js, SQL, HTML/CSS, JavaScript.
- Frameworks:** Spring Boot, LangChain, LangGraph, FastAPI, Microservices, REST APIs, Hibernate, JUnit.
- Generative AI:** LangChain, LangGraph, RAG, Prompt Engineering, Chroma, FAISS, GPT-4, GPT-4o, Llama 3.1.
- Vector DBs:** Pinecone, Chroma, FAISS.
- Database:** MySQL.
- Tools:** IntelliJ IDEA, VS Code, Git, GitHub, Jenkins, Jira.
- Concepts:** Data Structures, Algorithms, GenAI, RAG, DBMS, OOPs, Agile.

## Projects

### Medical AI Assistant

- Developed a context-aware Medical AI Assistant using LangChain and Llama 3.1 for symptom analysis, healthcare assistance, and medical guidance.
- Implemented a RAG pipeline with Pinecone to process medical PDFs and retrieve relevant context using HuggingFace embeddings.
- Built intelligent routing for Web Search and Vector Search based on user prompts.
- Optimized conversational flow using structured context handling for better user interaction.
- Tech Stack:** Python, FastAPI, LangChain, Llama 3.1, Pinecone, HuggingFace, DuckDuckGo API, React.js.

### ShopSphere — E-Commerce Microservices System

- Built an e-commerce system using a microservices architecture with three core services — Product, Order, and Payment — making the application more scalable and easier to maintain.
- Integrated Eureka Server for service discovery and Spring Cloud Gateway for routing, enabling smooth communication between services.
- Enhanced performance by adding Redis caching, which reduced database load and improved response time for frequently accessed data.
- Built** with Spring Boot, Spring Cloud, React.js, JWT, Spring Security, MySQL.

## Education

MCA — Motilal Nehru National Institute of Technology, Allahabad

CPI: 7.9

## Achievements

- Awarded “Best Learning Team” for teamwork and performance.
- Completed multiple projects under strict timelines.