Niraj Amrutkar

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PROFESSIONAL SUMMARY

Software Engineer with 1 year of experience developing scalable **backend systems** using **Java, Spring Boot, Kafka** and **OpenSearch**. Hands-on expertise in **GenAI** and **RAG systems** with LangChain, FastAPI and Ollama for building context-aware AI solutions. Strong foundation in **data structures, algorithms** and **full-stack development** with proven achievements in coding competitions and academic excellence.

TECHNICAL SKILLS

Programming Languages	Java, Python, C/C++, SQL
Frameworks	Spring Boot, Node.js, ReactJS, Microservices, REST APIs, Apache Kafka
AI/ML & GenAI	Generative AI, LangChain, LangGraph, Hugging Face, Ollama, RAG Systems
Databases & Search	MySQL, NoSQL, OpenSearch, Elasticsearch
DevOps & Tools	Git, GitHub, Docker, Kubernetes, AWS EKS, Prometheus, Splunk

WORK EXPERIENCE

S&P Global — July 2024 – July 2025
Software Engineer — *Hyderabad, TS, India*

· Built scalable **Spring Boot** application for processing 10K+ daily **Kafka** events into **OpenSearch**, reducing query latency by 25%.
· Developed an enterprise-grade **RAG system** using **LangChain, FastAPI, Ollama** and **OpenSearch** enabling hybrid lexical + semantic search.
· Optimized **vector embeddings, chunking strategies** and **hybrid queries**, boosting search accuracy by 15%.
· Automated **CI/CD pipelines** with **Docker, Kubernetes** and **GitHub Actions**, integrating **Prometheus & Splunk** for monitoring, improving deployment efficiency by 20%.

NxtPe — Jan 2024 – Feb 2024
Software Engineer Intern — *Remote*

· Enhanced reliability of a **Spring Boot microservices** notification system, reducing failures by 15%.
· Collaborated with teams on design reviews and documentation, ensuring 99% uptime for services.

PROJECTS

Speech Therapy Assessment Application   ⭘
Node.js, Express.js, ReactJS, MySQL, Cloudinary

· Built a full-stack web application with **REST APIs**, managing 100+ daily therapy sessions and **Cloudinary integration** for media storage.
· Implemented CRUD workflows for categories, subcategories, cards, and assessments using a **MySQL database**.
· Built responsive **ReactJS** UI for therapy assessments, ensuring a smooth user experience across devices.

EDUCATION

Vishwakarma Institute of Information Technology — Nov 2020 – May 2024
B.Tech in Information Technology, CGPA: 9.27/10 — *Pune, MH, India*
Relevant Coursework: Operating Systems, Computer Networks, DBMS, Data Structures and Algorithms

ACCOMPLISHMENTS

Ranked in **Top 0.14%** (1785/1.3M) in TCS CodeVita Round-1 2023, a global coding competition.
Secured **Top 3%** in MHT-CET 2020 and **Top 6%** in JEE Mains 2020 among 1M+ candidates.
Won Fix and Find Competition, outpacing 50+ teams in a coding and problem-solving challenge.
Qualified GATE 2024 (CS & IT) with a score of 342 among 1.23 lakh candidates.