Rajul Shakywar

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SUMMARY

Software Engineer with **3.5+** years of experience building end-to-end software applications from scratch, quickly adapting to new technologies to translate business ideas into technical solutions.

CORE COMPETENCIES

Programming Languages (Backend): Java, C#, C++, Python
Frameworks: SpringBoot, JSP (Servlets), ASP.NET, Hibernate, Junit, Mockito
Databases: Redis, MySQL, MongoDB
Frontend skills: HTML5, CSS, Bootstrap, JavaScript, ReactJs
AI/ML: Machine Learning, Generative AI (GenAI), LLMs, AI Agents, RAG, CAG, LangChain, LangGraph, vLLM, VectorDBs
Technologies and Tools: AWS, RESTful APIs, DevOps, CI/CD, Docker, Kubernetes, Git, Kafka
Other skills: Data Structures and Algorithms, System Design, Object Oriented Programming, SOLID Principles, Design Patterns, Microservices, Agile Methodologies.

PROFESSIONAL EXPERIENCE

Software Engineer (GenAI)   May 2025 – Present
Sera Digital Corp, Omaha (NE), USA

- Building private AI infrastructure for DoD contractors by fine-tuning a Large Language Model (LLM) on CMMC compliance standards and developing RAG/CAG systems using company-specific Obsidian data to automate compliance auditing.
- Building cross-functional, CMMC-compliant applications using WinDev technology following DOD standards.

AI & Software Engineer   Jan 2025 – May 2025
Assembli AI, Omaha (NE), USA

- Early **AI** team member at Assembli AI, built end-to-end pricing pipeline using LLMs to extract, standardize, process and structure invoice data into a database reducing construction cost estimation and proposal generation time from **50+ hours** to few minutes.
- Developed AI agent for project-specific Q&A, including features like material grade selection for the end users.

Full Stack Developer (Co-founder)   Feb 2024 – Jul 2024
SkyRang (MP) - (www.skysrang.com)

- Technical Co-founder responsible for the architecture design and development an online decoration service web application from scratch including a content, orders, and administration management systems using Java, JSP, Hibernate, MySQL, and JavaScript.
- Deployed and managed the website on **AWS**, supporting over **700** users across **3** different cities in India.

Software Development Engineer   Jul 2021 – Jan 2024
Reliance Jio Infocomm Limited, Bangalore (KA)

- Designed and developed CAAS (Cache as a Service), a highly scalable and reliable centralized cache management system, handling **800 GB** of distributed cache data for **4 teams** in collaboration with cross-functional teams.
- Ensured high availability, data persistence, and scalability, handling up to **1500 requests** per second, with easy integration as a separate cache layer from the application.
- Managed deployments and resolved exceptions for FeatureHub application, reducing Change Lead Time (CLT) by **75%** for independent features deployment.
- Conducted code reviews, implemented test automation, and mentored **3** junior developers.
  Skills used: *Java, SpringBoot, MySQL, Redis, Kafka, REST APIs, JUnit, Kubernetes, System design.*

OTHER IMPORTANT PROJECTS

Cancer Subtype Analysis using Machine Learning, *Master's Project* Jun 2024 – Dec 2024

University of Nebraska, Omaha (NE), USA

- Developed C3MOD, a Python library for identifying cancer subtypes in multi-omics data across **30 cancer** types and **8K cancer patients** using unsupervised clustering algorithms and bioinformatics techniques.
- Enabled flexibility for users to choose cancer types, algorithms, parameters, and analyses tailored to their research needs, leveraging machine learning and data analysis techniques (Link: [GitHub](#)).

EDUCATION

University of Nebraska at Omaha (NE), USA Jan 2024 – May 2025

Master of Science in IT Innovation | 4.0/4.0 GPA

Indian Institute of Technology (IIT), Roorkee, India May 2017 – June 2021

Bachelor of Technology, Electronics and Communication Engineering