Sai Nath Myana

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SUMMARY

Experienced Software Engineer with a strong foundation in Java, Spring Boot, and SQL, complemented by hands-on frontend experience with React.js. Proven expertise in building secure, scalable RESTful APIs, orchestrating Spring Batch workflows, and deploying containerized microservices on Kubernetes. Recently focused on integrating Generative AI into enterprise applications, including LLM-based chatbots, RAG systems, and agentic AI using vector search and tool chaining. Passionate about delivering full-stack, intelligent solutions that bridge traditional systems with modern AI capabilities.

EXPERIENCE

Walmart Global Tech   **Sunnyvale, CA**
  Software Engineer   May 2024 - Present

- Designed and implemented Spring Boot Batch jobs to process and integrate data from APIs, SFTP, and LDAP, ensuring reliability and scalability.
- Secured and built RESTful APIs using OAuth2, JWT, and Spring Security to facilitate robust backend-frontend communication.
- Managed and orchestrated Kubernetes-deployed containerized batch jobs, enhancing system performance and observability.
- Integrated LLM capabilities into enterprise systems using RAG pipelines and Milvus for vector storage, enabling intelligent query-based agent responses.
- Developed agentic AI workflows by chaining tools (e.g., data fetchers, summarizers, transformers) based on user queries, enhancing system automation and adaptability.
- Worked on unit, integration, and contract tests for APIs and batch processors, achieving over 85% test coverage and reducing production defects.
- Optimized batch job performance by tuning chunk size, thread pool, and SQL queries, reducing average execution time by 40%.

Accenture   **Hyderabad, India**
  Software Engineer   Aug 2019 – Aug 2022

- Contributed to the development of Java backend services and APIs, gaining hands-on experience under senior mentorship to support project objectives.
- Assisted in database operations such as schema design and query optimization using Hibernate, contributing to data management efficiencies.
- Actively involved in code reviews, optimizing the code, and bug fixing for Java automation scripts.
- Worked on XML, Web Services, SOAP UI, and UNIX logs as part of backend service integration and maintenance, ensuring seamless communication across services.
- Leveraged Selenium, TestNG, and Maven for automation and testing of backend services, contributing to improved software quality and performance.

PROJECTS

Slack-Integrated Chatbot for Student Data Querying

- Developed a backend chatbot system using Lang Chain, Spring Boot, and Slack Bolt to enable natural language querying of student information via Slack.
- Designed a real-time interactive Slack bot using Socket Mode**,** Stream lit**,** and a REST API to fetch and respond with dynamic data from an in-memory database.

Microservices implementation with Spring boot

- Crafted and implemented a scalable microservices architecture using Spring Boot, Eureka for service discovery, and feign for inter-service communication.
- Architected RESTful APIs for Quiz and Question Services, enabling quiz creation, category-based question retrieval, and score calculation, while leveraging MySQL for efficient data management.

GenAI Capstone Project – Board Game Rules Explainer

- Built a RAG-based AI assistant to simplify and explain board game rules using OpenAI's GPT and vector search.
- Ingested and chunked plain-text rulebooks, embedded them using OpenAI embeddings, and stored them in Milvus for semantic retrieval.
- Developed a Streamlit chatbot UI to fetch the most relevant rule chunks and generate easy-to-understand responses in real time.

EDUCATION

Master of Science in Computer Science   **Rolla, MO**

Missouri University of Science and technology

Bachelor of Technology in Electronics and Communication Engineering   **Andhra Pradesh, India**

Gandhi Institute of Science and Technology

SKILLS

- **Programming Skills:** Java, Python, JavaScript.
- **Libraries & Frameworks:** Spring Boot, React, LangChain
- **Databases & Cloud Services:** MySQL, PostgreSQL, NoSQL, MongoDB, AWS, Azure.
- **DevOps and Infrastructure Automation:** Docker, Kubernetes, Terraform, Ansible, Kafka, RabbitMQ.
- **Testing & Debugging:** Jest, Rest-Assured, JUnit, Mockito, Selenium.
- **Monitoring and code quality:** Splunk, Grafana, Prometheus, SonarQube.
- **GenAI & LLM Integration:** OpenAI API, Retrieval-Augmented Generation (RAG), Embeddings, Vector Search, Prompt Engineering, Agentic AI.