

Vallisri Sista

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Generative AI Developer with 5 years in Enterprise Backend Engineering, Middleware, Agentic AI, and Automation.

TECHNICAL SKILLS

Languages: Python, Java

Vector DB: Mongo DB

Frameworks / Tools: Agentic AI, RAG, LangChain, LangChain4j, MCP, Spring Boot, REST APIs, Hibernate, Maven

Enterprise: Middleware, DB2, XML, Git, GitHub, Bit Bucket, Unix, Jira, Jenkins, CICD, PyCharm, IntelliJ, Eclipse, VS Code, Google Colab

PROFESSIONAL EXPERIENCE

Accenture - Custom Software Engineering Senior Analyst

Jul 2021 - Present

Client: Bank of America | Focus: Java backend, Middleware, Secure Integrations, Gen AI automation

PROJECT EXPERIENCE

Incident Postmortem RAG

- Developed a RAG based incident search assistant in Python to help in resolving incidents based historical postmortems, reducing the resolution time by 50% and achieving an MRR of 0.94.
- Used MongoDB Atlas document/vector storage and search, Voyage AI embeddings for semantic retrieval.
- Integrated LLM workflows using **LangChain** and utilised **LangSmith** for tracing and observability.
- Implemented **LLM-as-a-judge** evaluations for faithfulness and relevance, added specialized classifier, **DeBerta** for guardrails for prompt injection, reducing the LLM calls while preserving reliability
- Deployed the application in AWS EC2, leveraged CICD of Github
- Demo at <https://incident-postmortem.duckdns.org/>

AI Integration using MCP

- Integrated MCP with LangChain4j to enable LLM-driven decision making and dynamic tool invocation in a Java based enterprise middleware application using **LangChain4j** framework.

Request Processor Integrator - Middleware Application

- Developed and maintained message-oriented middleware for enterprise message routing, secure application communication, data transformation, and transaction flow stability.
- Debugged and enhanced components using **Core Java, Advanced Java, Hibernate, SQL, XML, Spring concepts, and Log4j**, improving monitoring and troubleshooting.
- Supported production releases by analyzing issues, coordinating deployments, validating fixes, and collaborating with business, application, release, infrastructure, and security teams.
- Worked in Risk Vulnerability Remediation, Compliance Checks and FOSS vulnerability remediation activities

EDUCATION

M.Tech (Online), Artificial Intelligence and Data Science - IIIT Kottayam | 2024 - 2027

B.Tech, Information Technology - MVGR College of Engineering, Vizianagaram | 2017 - 2021 | CGPA: 8.48

CERTIFICATIONS & AWARDS

Gen AI Fundamentals - Accenture | Azure AI Fundamentals AI-900 - Microsoft | ACE Award - Accenture