

## SUMMARY

Software Engineer with 2+ years of experience architecting scalable backend services (Java and Python) and building AI-powered agent systems. Experienced in collaborating with cross-functional teams and managing end-to-end project delivery throughout all phases of the Software Development Life Cycle. Strong focus on system reliability, API design, and backend scalability.

## EXPERIENCE

### Software Engineer

Visa

Jun 2024 – Present

Bangalore, India

- Architected a multi-agent AI orchestrator using **LangGraph** StateGraph with parallel dispatch, conditional routing, and typed state reducers – coordinating 4 concurrent domain agents and 15+ config-driven experts to autonomously triage production SWAT incidents, reducing MTTR from 60+ minutes to **under 15 minutes**.
- Built an **MCP server** (FastAPI) exposing 85+ automated health checks across 9 data sources as AI-consumable tools with label-based discovery and runtime tool selection. Integrated a **self-learning memory** system using PostgreSQL + pgvector for semantic pattern retrieval across investigations.
- Designed and built full-stack workflow orchestration engines (**Spring Boot**, Angular) automating network device OS upgrades across multi-vendor topologies – replacing high-risk manual runbooks with validated, rollback-capable pipelines and saving **200+ hours** of operational effort per automation annually.
- Developed an interactive infrastructure topology visualization tool using Cytoscape.js with real-time node/edge mapping and integrated health diagnostics, enabling rapid root-cause analysis during production incidents.
- Built autonomous **self-healing systems** that detect and remediate server and host alerts in real time without human intervention – ensuring uninterrupted transaction processing and reducing operational costs at scale.

### Software Engineer Intern

Wayfair

Jan 2024 – May 2024

Bangalore, India

- Built REST APIs using Spring Boot for data retrieval and automated Airflow DAG triggers; engineered scalable DAGs aligned with business workflows, refactoring legacy pipeline scripts to resolve silent failures and reduce error rates in production.
- Led end-to-end data migration from MySQL to PostgreSQL using Striim, modernizing the data layer; leveraged BigQuery for large-scale data analysis and Datadog for pipeline monitoring.

### Automation Testing Intern

Schlumberger

Jul 2023 – Sep 2023

Pune, India

- Developed and maintained automated test scripts using Selenium Java and Cucumber framework, streamlining regression testing and structured bug reporting via Azure DevOps.

## TECHNICAL SKILLS

**Languages:** Java, Python, Go, SQL, TypeScript, C++

**Frameworks & Architecture:** Spring Boot, Spring, Microservices, Kafka, System Design, FastAPI, GraphQL, Angular, React, OAuth/JWT

**AI & Agent Frameworks:** LangChain, LangGraph, RAG, MCP, CrewAI, Knowledge Graphs, OpenAI SDK, n8n

**Databases & Analytics:** PostgreSQL, Redis, MongoDB, BigQuery, Neo4j, ClickHouse, MySQL, Vector Databases

**Infrastructure & Observability:** AWS, Kubernetes, Docker, Terraform, GCP, Datadog, Prometheus, Grafana, CI/CD, GitHub Actions, Git, Airflow, Splunk

## CERTIFICATIONS

Agentic AI Track · Software Architecture and System Design · Backend Engineering Core · AWS Cloud Practitioner

## PROJECTS

### Codebase Onboarding Agent

Mar 2026

- Designed and built an AI-powered codebase analysis agent using LangGraph to autonomously scan repositories, map dependencies, detect code patterns, and produce structured onboarding reports with a 6-dimension AI-readiness score and ready-to-use context files for Claude, Copilot, Cline, and Aider.
- Built the full-stack delivery layer – FastAPI backend with WebSocket progress streaming, React report viewer, and SQLite caching – featuring a model-agnostic LLM layer (LiteLLM/Gemini), rate-limited calls with exponential backoff, Pydantic strict-mode state management, and LangSmith tracing for pipeline observability.

## EDUCATION

Amrita School of Computing, Coimbatore, India — B.Tech in Computer Science and Engineering

2020 – 2024

## LANGUAGES

English (Fluent) · Hindi (Conversational) · German (Basic A1)