Gopi Sri Krishna Yarlagadda

Founding Full Stack Engineer | Dallas, TX gopisrikrishna.y@gmail.com gopisrikrishna gopisrikrishna Portfolio

Summary

Founding Full Stack Engineer building an AI-powered freight and logistics SaaS platform from scratch: scalable Python and Java microservices on Kubernetes, secure authentication, and agentic AI with retrieval-augmented generation (RAG) and Model Context Protocol (MCP) integrations that automate shipment and invoice workflows.

Skills

Agentic AI: Agentic AI development, RAG, Model Context Protocol (MCP), AI workflow automation
Languages: Python, Java, TypeScript, JavaScript, C++, SQL, HTML, CSS
Frameworks & Libraries: React, Spring Boot, JSP, Hibernate, PHP, SLF4J
Databases: MySQL, SQL, Flyway
Cloud & DevOps: Google Cloud (GCP), Docker, Kubernetes, Linux, CI/CD (GitHub Actions), Git
APIs & Testing: REST APIs, Postman, JUnit, Selenium
Authentication & Security: OAuth 2.0, JWT, Microsoft Entra ID, Google SSO, RBAC, Incident Management, XSS Mitigation
Practices: Agile (Scrum), SDLC, On-call Rotation, DRI (Designated Responsible Individual), GitHub, Jira, Confluence

Experience

Ascend Cargo **Oct 2024 – Present**
Founding Full Stack Engineer *TX, USA*

- Building an AI-powered freight and logistics SaaS platform from scratch, spanning rates and carriers, orders and shipments, gate and yard operations, billing and audit, analytics, and AI agents.
- Designed and operated scalable microservices and backend APIs for high-volume data ingest in Python and Java, deployed on Kubernetes with batch handling and autoscaling for high availability.
- Built agentic AI features, including RAG and MCP integrations, powering shipment and invoice agents that automate freight workflows.
- Implemented secure authentication (OAuth 2.0, JWT, RBAC, Entra ID, Google SSO), preventing brute-force attacks and improving login efficiency and security controls by 35%.
- Served as DRI for backend systems: monitored availability, reliability and performance, and led on-call efforts to cut interruption and restoration times.
- Automated end-to-end FTP file workflows triggered via REST APIs and service bus patterns with robust error handling, cutting manual labor by 90%.
- Designed and optimized distributed REST APIs with caching, improving response times by 30%; drove data-driven performance debugging.
- Improved monitoring, logging and observability with Docker, cloud-native tools and GitHub Actions CI/CD; wrote technical documentation, estimates and work breakdowns across teams.

Virtusa **Dec 2021 – Apr 2022**
Software Developer *Chennai, India*

- Engineered features and refactored the "Grievance Cell" web product (Java, Spring Boot), increasing reliability and code reuse and reducing issue resolution time by 40%.
- Delivered maintainable modules for ticket assignment and user feedback in Agile sprints (Spring Boot, REST APIs, JUnit).
- Worked with a cross-functional team on uptime and rapid restoration across release cycles, raising user satisfaction by 35%.

Dhanekula Institute of Engineering and Technology **Aug 2020 – Nov 2021**
Research Developer *AP, India*

- Developed distributed JSP modules for college administration, automating student certification workflows across releases.
- Implemented monitoring, reporting and automated testing for certificate issuance, reducing errors and manual handling by 90%.
- Found and fixed security vulnerabilities, including cross-site scripting (XSS), in Java Server Pages modules.

Projects

solarnetwork-mcp | *TypeScript, Model Context Protocol, PDF reports* **github.com/gopisrikrishna/solarnetwork-mcp**

- MCP server with 10 tools that lets AI agents read solar telemetry, detect dated equipment faults with peer-relative analysis, estimate lost energy, and write technician work orders as PDFs; reports "not assessed" when data cannot support a conclusion.

Education

University of Texas at Arlington, Arlington, TX **May 2024**
Master of Science, Computer Science *GPA: 3.55*
Dhanekula Institute of Engineering and Technology, AP, India **Jun 2022**
B.Tech, Computer Science *GPA: 3.3*

Certificates

Microsoft Azure Fundamentals (AZ-900) · Cisco Networking Essentials · Coursera: Object Oriented Programming in Java · NPTEL: The Joy of Computing using Python; Programming in Java