

SAIRAGHAV UDAYAGIRI

Senior Full-Stack Software Engineer | AI & Automation Engineer

sairaghavuk@gmail.com • (312) 375-8490 • Chicago, IL
[linkedin.com/in/sairaghav-udayagiri-034366140](https://www.linkedin.com/in/sairaghav-udayagiri-034366140) • github.com/sudayagiri5 • sairaghav.dev

PROFESSIONAL SUMMARY

Senior full-stack software engineer with 5+ years delivering and operating production systems across banking, healthcare software, and telecommunications. Strong across the stack: Java 17 and Spring Cloud microservices, React and Angular front ends, deployed on AWS and Azure with Kafka, Kubernetes, and Terraform. Increasingly focused on AI and automation, developing agentic and retrieval-augmented (RAG) workflows in Python on the same reliability-first foundation. Comfortable owning delivery end to end, from requirements and stakeholder alignment through CI/CD, L2 production support, and SOX and PCI-DSS compliance. Master of Information Technology and Management, Illinois Institute of Technology (STEM-designated).

TECHNICAL SKILLS

Languages: Java 17, Python, JavaScript, TypeScript, SQL, HTML5, CSS3

Backend & Frameworks: Spring Boot, Spring Cloud, Spring Batch, Spring Security, Hibernate, JPA, Node.js, REST, GraphQL, Microservices

Frontend: React, Redux, Next.js, Angular, Tailwind, Material-UI

AI & Automation: Generative AI, LangChain, LangGraph, Retrieval-Augmented Generation (RAG), Agentic AI, Model Context Protocol (MCP), Prompt Engineering, Azure OpenAI, FastAPI, pgvector

Cloud: AWS (EC2, S3, Lambda, ECS, EKS, RDS, DynamoDB, SQS, SNS, CloudWatch), Azure (App Service, Functions, AKS, Azure DevOps)

Databases: PostgreSQL, Oracle, MySQL, MongoDB, Redis, DynamoDB

Messaging & Streaming: Apache Kafka, RabbitMQ, ActiveMQ, SQS, SNS

DevOps & CI/CD: Docker, Kubernetes, Helm, Terraform, Jenkins, GitHub Actions, Maven, Gradle, SonarQube

Testing: JUnit 5, Mockito, TestNG, Jest, Cypress, REST Assured, TDD

Delivery & Practices: Agile/Scrum, Kanban, SDLC, JIRA, Confluence, requirements analysis, stakeholder management, technical documentation

PROFESSIONAL EXPERIENCE

US Bank

Senior Full-Stack Software Engineer

Chicago, IL

Feb 2025 – Present

- Engineer full-stack banking features with Java 17, Spring Boot, and React across online banking, payments, and loan origination for millions of customers, then stay on to own them in production.
- Architect resilient Spring Cloud microservices, including API gateway, service discovery, circuit breakers, and distributed tracing, sustaining 99.9% availability and sub-100ms response times at transaction scale.
- Design and document 30+ RESTful and GraphQL APIs validated through Postman, Swagger/OpenAPI, and REST Assured, partnering with product and compliance to translate banking regulations into sprint-ready specifications.
- Automate finance operations with event-driven Kafka, SQS, and SNS pipelines and Spring Batch jobs for reconciliation and regulatory reporting, reducing manual effort by roughly 60% under PCI-DSS and SOX controls.
- Run CI/CD on Jenkins and GitHub Actions with Docker, Kubernetes, Helm, and Terraform on AWS, cutting deployment cycle time about 70% with zero-downtime releases and 90%+ test coverage.
- Prototype agentic-AI and retrieval-augmented (RAG) automation in Python with LangChain and LangGraph to cut manual review and document handling, applying the same observability and reliability practices used across banking services.

Cognizant Technology Solutions

Software Engineer

Hyderabad, India

Mar 2021 – Dec 2023

- Delivered full-stack features on a business-critical platform for a global pharmaceutical client using Spring Boot, Angular 12 to 16, and React, shipping reusable UI components and REST integrations each sprint.
- Wrote Python utility scripts for API simulation and integration test automation, accelerating verification cycles and cutting integration defects across UI and API layers by about 40%.
- Owned L2 production support, resolving 8 to 10 incidents per sprint within SLA and with zero escalations through log analysis, SonarQube, and root-cause fixes.

- Held the quality line with test-driven development across JUnit 5, Mockito, Jasmine, and Karma, and led onboarding and knowledge transfer for new engineers, earning the Best Team Member Award for delivery quality.

Verizon

Junior Software Engineer

Hyderabad, India

Jan 2020 – Mar 2021

- Built telecom applications for customer management, billing, and service provisioning with Java 11, Spring Boot, and Angular.
- Developed Spring Batch pipelines for billing cycles, invoice generation, and payment reconciliation, integrating RabbitMQ and ActiveMQ for asynchronous processing.
- Deployed services on Azure across App Service, AKS, and Azure SQL, and set up CI/CD through Azure DevOps and Maven, validating quality with JUnit and Karma in an Agile delivery cycle.

PROJECTS

ledger-recon (github.com/sudayagiri5/ledger-recon): Open-source Spring Batch engine that reconciles an internal ledger against a bank statement, classifies every exception, and serves results over a REST API. Java 17, Spring Data JPA, REST.

AtlasAssist (in development): Agentic RAG assistant that retrieves across private knowledge bases and reasons over them for grounded, citable answers. Python, LangGraph, pgvector, MCP.

FlowOps Commander (in development): Multi-agent automation hub that orchestrates specialized agents to run end-to-end operational workflows from a single console. LangGraph, FastAPI, Node.js, Postgres.

EDUCATION

Master of Information Technology and Management

Dec 2025

Illinois Institute of Technology, Chicago, IL • STEM-Designated

Coursework: Project Management for IT, IT Auditing, Process Engineering, Service-Oriented Architectures, Big Data Infrastructure, Database Security

Bachelor of Engineering, Electrical & Electronics Engineering

RMD Engineering College, Chennai, India

CERTIFICATIONS

AWS Certified Solutions Architect, Associate (In Progress) • Microsoft Certified: Azure AI Engineer Associate, AI-102 (In Progress)

IBM RAG and Agentic AI Professional Certificate (In Progress) • Professional Scrum Master I, PSM I (In Progress)