

Senior Software Engineer – Backend / AI Platforms | Distributed Systems | AI Agents | Cloud Infrastructure | Data Pipelines

PROFESSIONAL SUMMARY

Senior Software Engineer with 10+ years of experience building **scalable backend platforms, distributed systems**, and data pipelines. Experienced in developing **Java, Python, Kafka**, AI-powered applications and agentic workflows using **LLMs**, LangChain, and LangGraph integrated with enterprise services. Proven track record of improving system performance by up to 90% while delivering reliable systems used by thousands of users.

TECHNICAL PROFICIENCIES

Languages & Frameworks: Java, Spring Boot, PHP, JavaScript, Python, React.js, Node.js

Backend Development: Microservices, REST APIs, API Design

AI & Agents: LLM Applications, LangChain, LangGraph, Prompt Engineering, OpenAI, GenAI, Copilot

Data & Messaging: Kafka, Snowflake, MySQL, PostgreSQL

Cloud Infra & DevOps: AWS, Docker, Kubernetes, Terraform, Jenkins, CI/CD, Prometheus, Grafana, Splunk

Certifications: Certified ScrumMaster, AWS Trained Technical Professional, IBM Certified Application Developer – Cloud V1

PROFESSIONAL EXPERIENCE

- **Cisco Systems, Austin – TX** **Senior Software Engineer** | Oct 2020 – Oct 2025
 - Built an **LLM-powered chatbot prototype using Python and Azure OpenAI**, implementing secure token-based authentication, contextual prompt orchestration, and conversational workflows.
 - Designed **AI agent workflows using LangChain and LangGraph**, enabling multi-step reasoning, context management, and backend service integration.
 - Designed and deployed **enterprise dashboards and automated reporting pipelines using Snowflake and Kafka**, improving leadership visibility by 90% and cutting turnaround time by 80%.
 - Spearheaded development of a **training management platform** from scratch enabling 100% automated progress tracking, saving hundreds of hours in manual effort.
 - Engineered backend and notification systems, including a script that reduced processing from 10 hours to 10 minutes, improving efficiency by 90%+ and lowering server load by 40%.
 - Contributed to Budget, Statement of Work (SoW), Headcount, and Compliance management system development, ensuring 100% on-time delivery of large-scale communications and enhancing system robustness and adoption.
 - Collaborated with product, operations, and other **cross-functional teams** to design scalable backend architecture and new data sources integration.
 - **Improved technical documentation** while consistently resolving critical issues to ensure business continuity.
- **TACC, UT Austin** **Engineering Scientist Associate Intern** | June 2019 – Oct 2019
 - Directed development of Gateway-in-a-Box (GiB), a portable Science Gateway solution enabling scientists to run **HPC workflows** via a **web interface** and reducing job submission time by 90%.
 - Enhanced platform capabilities with interactive terminal emulation, batch job management, file/storage controls, and admin console, significantly improving usability and efficiency for supercomputer users.
- **Infosys Limited, India** **Senior Systems Engineer** | Oct 2012 – Jan 2018
 - Engineered microservices and automation tools (cURL parser, CSV generator, Smoke Test Utility) that reduced manual tasks and human error by up to 95%.
 - Managed development of API testing and automation solutions that accelerated validation cycles and improved reliability.
 - Developed cloud deployment web apps reducing human intervention to 20% and enabling faster releases.
 - Delivered end-to-end website setups and security configurations (SSL, LAMP) for production environments

EDUCATION

MS, Computer Science - Binghamton University, SUNY

Aug 2018 - May 2020

MS, Computer Science

GPA: 3.56/4.0

Galgotia's College of Engineering & Technology, Gr. Noida – India

Aug 2008 - Jun 2012

Bachelor of Technology, Electronics & Instrumentation Engineering

ACHIEVEMENTS

- **Cisco Connected Recognition Award** – Multiple recognitions for impactful contributions in engineering.
- **Insta Award (Infosys)** – Innovation, explorative problem-solving and programming excellence.
- Published review paper on “**Autonomous Military Vehicle**” at National Conference on Emerging Trends, 2012