

Rakshaa Viswanathan

Software Engineer | Distributed Systems | Cloud Infrastructure

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PROFESSIONAL SUMMARY

Software Engineer with 4 years at Microsoft specializing in distributed systems and cloud infrastructure for sovereign cloud platforms. Built and scaled production services supporting 10k+ workloads across 100k+ servers, cutting incident resolution time 30% and configuration propagation latency 70%.

EXPERIENCE

Microsoft

Software Engineer, Azure Edge & Platform

Bengaluru, India

06/2022 – Present

- Architected the **GraphQL** backend resolvers and **Cosmos DB** data pipelines for **Azure Dependency Service Graph**, an internal platform mapping service dependencies across new sovereign clouds, **cutting incident resolution time 30%** for **10k+ services**.
- Reduced configuration **propagation latency 70%** and scaled throughput to **2M+ events per day** by designing an event-driven architecture for an internal configuration-management platform, using **Kafka** and **Azure Pub/Sub**.
- Improved **P99 request latency 30%** and cut new-service **onboarding time 25%** by modernizing the platform's APIs with schema versioning, caching, and targeted performance tuning across sovereign environments.
- Designed and shipped **Cloud-Sprout AI Assistant**, a **RAG**-based support tool that automates first-line engineering support across **10k+ configurations**, deflecting routine support requests from the engineering team using semantic search and an LLM retrieval pipeline.
- Halved release shipping time **from 14 to 7 days** by integrating **Linux Integration Services Automation (LISA)** into Azure Linux and standardizing validation workflows across large-scale production server fleets.
- Cut **regression defects 35%** and **accelerated deployments 20%** by building automated **Python** validation and release pipelines, plus a **React** dashboard surfacing regression and release-health trends for the team.

Microsoft

Software Engineering Intern

Bengaluru, India

06/2021 – 07/2021

- Built a **distributed build system** with **Go** and **Linux** virtualization that **cut build times 66%** for large-scale kernel workloads, parallelizing compilation and hardening fault recovery.

EDUCATION

National Institute of Technology, Tiruchirappalli

B.Tech, Electrical & Electronics Engineering — Minor in Computer Science & Engineering

2018 – 2022

CGPA: 8.51/10

LEADERSHIP

- **Founded Superposition Chennai**, scaling a technical developer community to 300+ engineers through workshops, mentorship programs, and hands-on sessions across cloud, AI, and software engineering.
- **Directed Kurinji Hacks**, a developer hackathon, guiding 500+ participants across backend engineering, distributed systems, and machine learning project tracks.
- **Mentored early-career developers** and women in engineering across global technical communities, through hackathon coaching, career guidance, and open-source contributions.

SKILLS

Languages: Java, C++, C, Python, Go, JavaScript, Bash, YAML, C#

Backend & Frameworks: RESTful APIs, Microservices, Distributed Systems, Spring Boot, gRPC, GraphQL, API Design, Schema Evolution, Event-Driven Architecture

Cloud & Infrastructure: Microsoft Azure, Docker, Kubernetes, Terraform, Linux, Git

Data & Streaming: SQL, NoSQL, Cosmos DB, Distributed Databases, Apache Kafka, Pub/Sub, Message Queues, Real-Time Stream Processing, Caching

Systems & Engineering: Multithreading, Concurrency, OOP, Design Patterns, Scalability, Reliability, Performance Optimization, Debugging, Troubleshooting

Practices: System Design, Architecture Reviews, CI/CD Pipelines, Pair Programming, LLM Application Development (RAG, Semantic Search)