Sushanth Rangu

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PROFESSIONAL SUMMARY

Software Engineer with 2+ years of experience building low-latency, cloud-native systems and deploying scalable AI/ML solutions across AWS and Azure. Proven record of reducing latency to 15ms across 50+ distributed nodes. Proficient in backend development, DevOps automation, and resilient infrastructure using Java, Golang, Docker, Kubernetes, and Spring Boot.

PROFESSIONAL EXPERIENCE

UNCC ONEIT
Jan 2024 – Apr 2025

Software Engineer
Charlotte, NC

- Engineered a distributed **Golang** system with consistent hashing across 50+ nodes, boosting routing efficiency by 15%.
- Reduced wait times by 10 minutes for 10K+ users by analyzing routing data and tuning performance parameters.
- Migrated APIs from **REST** to **gRPC**, reducing serialization latency by 18% and enhancing system responsiveness.
- Built **GitOps**-compliant **CI/CD pipelines** using **Docker** and **GitHub Actions**, enabling zero-downtime rollouts.
- Tuned **AKS** ingress controllers and packet-forwarding logic, achieving 15ms latency and a 20% throughput increase.
- Processed 2M+ real-time records using **Python** and **SQL**, enabling large-scale **A/B tests** for transit optimization.
- Developed a **React** + **TypeScript** dashboard to visualize commuter **KPIs**, improving real-time ops visibility for 10K+ users.

Accenture
Jul 2022 – Aug 2023

Software Engineer
Hyderabad, IND

- Designed scalable microservices using **Java**, **Spring Boot**, **gRPC**, and **REST**, powering vendor/customer-facing platforms.
- Integrated **RBAC** and **OAuth2** authentication, reducing operational errors by 20% across both user groups.
- Built **GitOps**-based **CI/CD** with **Jenkins** and **Azure DevOps**, reducing release time by 60% while ensuring SLA compliance.
- Led test automation using **xUnit**, **Cypress**, **Moq**, and **shell scripting**, decreasing bug count by 40% and QA time by 30%.
- Migrated **Redis pub/sub** pipelines to **Docker** containers, improving system throughput by 25% in production.
- Hardened deployments for **high availability**, optimizing performance and fault tolerance across core services.
- Collaborated in **Agile** teams and configured **Keycloak** for identity federation across secure, **cloud-native modules**.

TECHNICAL PROJECTS

Face Mask Detection and Person Identification

- Deployed real-time mask detection on 500+ **Jetson** devices using **VGG-16** and **FCN**, achieving 98.5% accuracy at 30FPS.
- Accelerated inference by 30% via **TensorRT FP16** and **OpenCV DNN** with **GPU-enabled containerized workloads**.
- Tuned dataset **AUC curves** to boost model precision by 12% and reduce false negatives by 15% across edge devices.
- Integrated model rollout via **GitOps**-driven **Azure DevOps**, enabling automated **re-training** and **version control**.

Accessible Event Management Platform (WCAG-compliant)

- Developed a secure, **WCAG-compliant** web app for 1K+ users using **ARIA roles**, **SSR**, and **VoiceOver** accessibility testing.
- Secured platform with **JWT** and **OAuth2** authentication, blocking 10K+ **SQLi** attempts using **parameterized queries**.
- Improved page load (**LCP**) by 25% through **server-side rendering** and **CI-based A/B testing** with **performance telemetry**.
- Configured **Keycloak-based IdP** for centralized login and **role management** across internal services.

CurryExpress – Scalable Ordering & Delivery System

- Built a **Golang** backend with **geospatial routing** and 50+ nodes, achieving 15ms latency and 99.99% uptime.
- Reduced cloud spend by 15% by switching from **REST** to **gRPC** and enabling **autoscaling** with **AKS** and **ingress tuning**.
- Deployed **Azure OpenAI** and **shell scripting** to build predictive delivery ETAs and automate fallback routing logic.
- Implemented **GitOps workflows** with **ArgoCD** for seamless deployment of containerized **microservices** on **Kubernetes**.

EDUCATION

University of North Carolina at Charlotte — Charlotte, USA
Masters of Science in **Computer Science** — Aug 2023 – May 2025

Gokaraju Rangaraju Institute of Engineering and Technology — Hyderabad, India
Bachelor of Technology in Information Technology — Jul 2018 – Jun 2022

TECHNICAL SKILLS

Languages: Python, Java, Golang, Kotlin, C++, JavaScript/TypeScript, SQL
Backend & Frameworks: Spring Boot, Node.js, .NET Core, RESTful APIs, gRPC, Express.js
Cloud & DevOps: AWS, Azure, Docker, Kubernetes, Jenkins, GitHub Actions
AI/ML: TensorFlow, PyTorch, OpenCV, Scikit-learn, Azure ML Studio
Databases: PostgreSQL, MongoDB, MySQL, Redis, Neo4j
System Design: Microservices, Circuit Breakers, Connection Pooling

ACHIEVEMENTS and CERTIFICATIONS

- **AWS Certified Cloud Practitioner** – Oct 2024
- Practicing data structures and algorithms regularly (**300+ LeetCode problems**); solid grasp of system design principles
- Awarded **Certificate of Appreciation** for winning the Teams Challenge at **Accenture Technology Analyst School**
- Currently exploring **Azure AI**, **AKS**, and **OpenAI API** integrations for intelligent cloud-native applications