Sushanth Rangu

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PROFESSIONAL SUMMARY

Software Engineer with **2+ years** experience designing **distributed ML systems**, **GPU-accelerated inference platforms**, and **LLM-powered microservices**. Skilled in **Python, C++, Golang**, and **Azure OpenAI**, with expertise in **PyTorch/TensorFlow pipelines**, **TensorRT FP16 optimizations**, and **high-performance ML infrastructure**. Delivered **99.99% uptime**, deployed **500+ edge devices** with **98.5% detection accuracy,** and scaled inference services supporting **10K+ concurrent users**.

PROFESSIONAL EXPERIENCE

UNCC ONEIT   Jan 2024 – Apr 2025
Software Engineer   Charlotte, NC
- Built **Golang distributed routing system** across **50+ nodes**, improving boosting **efficiency 15%**.
- Integrated **Azure OpenAI APIs** for **LLM-powered ETA predictions**, optimizing routing intelligence for **10K+ sessions**.
- Optimized routing pipelines, reducing **commuter wait times by 10 mins** for **10K+ users.**
- Migrated **REST → gRPC**, cutting **serialization latency 18%** and improving real-time responsiveness.
- Automated deployments with **Terraform + GitHub Actions**, improving CI/CD efficiency **30%**.
- Scaled microservices via **GitOps on AKS**, achieving **99.99% uptime** and **20% fewer fault incidents**.
- Processed **2M+ transit records** via **Python + SQL**, enabling **real-time A/B testing**.
- **Developed a React + TypeScript dashboard**, enhancing **real-time KPI visibility** for **10K+ users**.

Accenture   Jul 2022 – Aug 2023
Software Engineer   Hyderabad, IND
- Designed **Java + Spring Boot microservices** with **gRPC/REST APIs**, powering **vendor & customer-facing platforms**.
- Implemented **OAuth2 + RBAC authentication**, cutting **operational errors by 20%** across user groups.
- Built **GitOps-driven CI/CD pipelines** with **Jenkins + Azure DevOps**, accelerating **release cycles 60%**.
- Led **test automation** with **xUnit, Cypress, Moq**, reducing **bugs 40%** and **QA time 30%**.
- Automated **QA workflows** in **C#/.NET**, cutting **validation 30%** and accelerating **release 20%**.
- Configured **Keycloak** for **identity federation**, enabling **secure SSO** for **5K+ users** in **Agile teams**.
- Deployed **Prometheus + Grafana monitoring**, improving uptime **25%** and reducing incident MTTR **40%**.

TECHNICAL PROJECTS

Face Mask Detection and Person Identification
- Deployed **mask detection** on **500+ Intel & ARM Jetson devices** using **VGG-16 + FCN**, achieving **98.5% accuracy**.
- Accelerated **on-device inference 30%** via **TensorRT FP16, OpenCV DNN, and GPU-optimized containers**.
- Tuned **AUC thresholds**, improving **model precision 12%** and cutting **false negatives 15%**.
- **Led a 5-member team** to design and deploy **real-time detection systems** at scale.

Accessible Event Management Platform (WCAG-compliant)
- **Led a 4-member team** to build a **WCAG-compliant event platform** for **1K+ users**.
- Engineered **WCAG accessibility features** with **ARIA + SSR + VoiceOver**, ensuring **seamless usability**.
- Secured apps with **JWT + OAuth2**, blocking **10K+ SQLi attacks**.
- Boosted **page load speed by 25%** via **SSR** and **CI-driven performance testing**.

CurryExpress – Scalable Ordering & Delivery System
- **Led a 4-member team** to design a **scalable ordering & delivery platform** using **Golang + Kubernetes**.
- Built a **geospatial routing backend** across **50+ nodes** using **Kafka streams**, achieving **15ms latency**.
- Integrated **Azure OpenAI APIs** to generate **predictive ETAs** and **automate fallback routing**.
- Implemented **GitOps workflows with ArgoCD**, enabling **zero-downtime deployments** for **50+ microservices**.

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: **Java**, **Python**, **Golang**, **C++**, TypeScript, SQL
Frameworks: **Spring Boot**, Node.js, gRPC, Express.js, .NET Core
Cloud & DevOps: **AWS**, **Azure**, Docker, Kubernetes, Terraform, Jenkins, GitHub Actions
AI/ML: TensorFlow, PyTorch, OpenCV, Scikit-learn, **Azure OpenAI**
Databases: PostgreSQL, MongoDB, MySQL, Redis, Neo4j
System Design: Microservices, Event-Driven Architectures, Circuit Breakers

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**
- Continuously exploring **Azure AI, AKS,** and **OpenAI API** integrations to build cloud-native intelligent systems