

MANOJ PASUNOORI

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PROFESSIONAL SUMMARY

Software Engineer with 4+ years of experience in backend development, distributed systems, DevOps automation, and production engineering. Strong background in designing, building, and troubleshooting complex, high-availability systems in telecom and digital product environments. Led medium-scale feature development, performed RCA on performance bottlenecks, and built cloud-native microservices with CI/CD, observability, and Kubernetes deployments. Excellent communicator with a track record of driving engineering improvements and collaborating across architecture, QA, and platform teams. Actively seeking to contribute to Citi's Enterprise Operations & Technology engineering mission.

TECHNICAL SKILLS

Languages: Python, Java, SQL, C++, Bash

Frameworks: FastAPI, Flask, Spring Boot

DevOps & Cloud: Docker, Kubernetes, Helm, GitHub Actions, AWS IAM/S3/EC2, Linux (SUSE, Ubuntu)

CI/CD: Jenkins, GitHub Actions, Container registries (GHCR, ECR)

Observability: Prometheus, Grafana, Metrics Instrumentation

Tools: Git, Ansible, Postman, Linux Networking

Specialties: Distributed Systems, API Development, Debugging & RCA, Microservices, Data Structures & Algorithms

PROFESSIONAL EXPERIENCE

Software Engineer

DoJoGa — Dallas, TX

Jun 2024 – Present

- Designed and built scalable backend services using Python and FastAPI as part of a digital product engineering team.
- Implemented CI/CD pipelines using GitHub Actions, enabling automated build, test, containerization, and deployment workflows.
- Developed Kubernetes manifests, Helm charts, and observability pipelines with Prometheus and Grafana to support production visibility.
- Optimized application performance and reduced API latency through improved caching and efficient data retrieval.
- Collaborated with founders, product teams, and AI engineers to accelerate feature delivery and improve system reliability.

Systems Engineer (Ericsson Component-Based Architecture)

Tata Consultancy Services — Hyderabad, India

Nov 2020 – Aug 2023

- Supported and engineered a mission-critical distributed telecom platform requiring 24/7 uptime, handling high-volume, low-latency workloads.
- Led automated server patching initiatives using Ansible and Python, reducing effort and improving security compliance across 400+ servers.
- Delivered Level 3 engineering support for production incidents; performed RCA on Java/C++ services and coordinated fixes with global teams.
- Migrated legacy workloads to AWS; configured IAM policies, Security Groups, and TLS/SSL certificates to enforce least privilege and secure communication.
- Created SOPs, performance dashboards, and knowledge repositories to improve onboarding and reduce operational overhead.
- Partnered with cross-functional teams (infrastructure, QA, architecture) to improve release stability and streamline operational processes.

KEY PROJECTS

Cloud-Native Microservices Platform (DevOps + GenAI Engineering Roadmap)

- Built a production-ready FastAPI + PostgreSQL microservice deployed on Kubernetes with Helm.
- Integrated Prometheus metrics and Grafana dashboards for real-time observability.
- Implemented fully automated CI/CD on GitHub Actions with Docker multi-stage builds and GHCR deployment.
- Added scalability, health checks, rolling deployments, and log aggregation (Loki planned).

SafeDrive AI – Real-Time Accident Risk Prediction

- Flutter app + Python ML API using the US Accidents dataset.
- Designed backend API, deployed containerized ML inference service, optimized prediction latency.

EDUCATION

Master of Science, Information Systems

University of Texas at Arlington — Arlington, TX (2023–2025)

Bachelor of Technology, Computer Science & Engineering

JNTUH (2016–2020)

ADDITIONAL EXPERIENCE & LEADERSHIP

- Senator, College of Business — UTA Student Government
- Volunteer: Microsoft AI Tour, Dallas AI Symposium, UTA AI Symposium
- Best Performer of the Month — Tata Consultancy Services
- Graduate Certificate in Business Analytics – UT Arlington

WORK AUTHORIZATION

Authorized to work in the U.S. under F-1 OPT STEM with 30 months of remaining eligibility. No immediate visa sponsorship required.