Meda Shabarish – Software Engineer & DevOps Practitioner

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Software Engineer with nearly 2 years of experience building and supporting cloud-based systems using Python, Docker, Kubernetes, and AWS. Skilled in automating software deployments and managing CI/CD pipelines to improve delivery speed and quality. Experienced in setting up monitoring, handling APIs, and working with teams to keep systems stable and secure.

KEY SKILLS

Backend Development | Containerization | CI/CD Automation | Infrastructure as Code (IaC) | Technical Documentation | Root Cause Analysis | Agile Environments | Observability

TOOLS & TECHNOLOGIES

Scripting Languages: Python, Shell | **Database Management Systems:** PostgreSQL, MongoDB, MySQL | **Container Platform**: Docker | **Container Orchestration:** Kubernetes | **Architecture:** Microservices, Monolith | **Version Control:** Git, GitHub | **Platforms:** AWS, Azure | **Infrastructure as Code (IaC):** Terraform | **Kubernetes Package Management**: Helm Charts | **GitOps Continuous Delivery (CD):** Argo CD

PROFESSIONAL EXPERIENCE

Software Engineer | Tenzai Systems   Remote, India | September 2023 - Present

- Designed and developed end-to-end DevOps automation pipelines, reducing manual deployment errors by **40%** and increasing release frequency by **3x**.
- Orchestrated Kubernetes deployments on AWS EKS clusters, improving system uptime to **99%**.
- Engineered and deployed a Python/Django/PostgreSQL-based citation management system, processing over **3,000** violations monthly with automated deployments via GitHub Actions.
- Integrated Xpress Bill Pay APIs into the citation platform, significantly boosting the online fine collection success rate by **30%**.
- Improved system scalability by developing event-driven microservices in Python, RabbitMQ, and Azure Blob Storage. Resolved memory limitations, allowing service to scale from **10** to over **500** users.
- Managed CI/CD pipelines for both frontend and backend with GitHub Actions, pushing to Azure Container Registry.
- Created and maintained technical documentation for API integrations, CI/CD workflows, and deployment processes.

KEY PROJECTS

- **Project:** A Real-Time Scalable Application CI/CD Pipeline on Jenkins with GitHub

Key Achievement: Deployed a CI/CD pipeline for a Python microservice application with Jenkins, Docker, and Kubernetes, utilizing Terraform to automate infrastructure provisioning, which enabled 3x faster release cycles.

- **Project**: AWS Infrastructure Provisioning Demo with Terraform

Key Achievement: Demonstrated a Terraform-based demo to train internal teams on Infrastructure as Code practices. Provisioned a complete AWS environment with VPC, public and private subnets across multiple Availability Zones, EC2 instances behind an Application Load Balancer (ALB), and automated NGINX installation using user-data scripts. The project accelerated team onboarding and improved understanding of Terraform workflows, enabling faster and more consistent infrastructure delivery across environments.

- **Project**: DevSecOps Pipeline (GitHub Actions + ArgoCD)

Key Achievement: Implemented automated code scanning, Docker build/test, vulnerability scanning with Trivy, and GitOps-based deployment to Kubernetes.

CERTIFICATIONS

Kubernetes and Cloud Native Associate (KCNA)	The Linux Foundation	Certificate	January 2025 - January 2027
Programming, Data Structures, and Algorithms using Python	NPTEL	Certificate	March 2022

EDUCATION

- **Bachelor of Technology – Computer Science and Engineering** | Santhiram Engineering College | 2019 - 2023 | 8.08 CGPA