Meda Shabarish – DevOps Engineer

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DevOps Engineer with almost 2 years of experience designing scalable, secure cloud-native applications using Python, Docker, Kubernetes, AWS, and CI/CD pipelines. Experienced in automating deployments, managing APIs, and integrating monitoring tools. Proven ability to enhance system performance and reliability through innovative architectural decisions.

KEY SKILLS

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

TOOLS & TECHNOLOGIES

Scripting Languages: Python, Shell | **Database Management Systems:** PostgreSQL, MongoDB, MySQL, AWS DynamoDB | **Container Platform**: Docker | **Architecture:** Microservices, Monolith | **Version Control:** Git, GitHub | **Platforms:** AWS Cloud, Azure | **Infrastructure as Code (IaC):** Terraform

PROFESSIONAL EXPERIENCE

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

Application Development and Deployment, Software Engineering
- Designed and implemented a citation management system using Python, Django, and PostgreSQL, enabling traffic enforcement agencies to process **3000+** violations monthly with **99.99%** data accuracy and integrity.
- Developed multiple **data pipelines** capable of managing image and video data from various sources (APIs, S3 buckets, etc.) and loading the data into **AWS RDS**.
- Boosted the stability and speed of data pipelines by **80%**, reducing processing time from **5 hours to 1 hour**.
- Integrated Xpress Bill Pay APIs into the citation platform, boosting online fine collection success rate by **30%**.
- Planned and created the end-to-end DevOps automation pipeline, reducing manual deployment errors by **40%** and accelerating release frequency by **3x**.
- Orchestrated Kubernetes deployments in scalable **EKS clusters** to improve uptime by **99%.**
- Ensured secure deployments and container image integrity using **AWS Private ECR** and Secrets Manager.
- Created and maintained technical documentation for API integrations, CI/CD workflows and deployment procedures.
- Utilized **Python**, **Docker**, **Kubernetes**, **AWS MQ**, **Secrets Manager,** and **AWS RDS** for application development.

KEY PROJECTS EXECUTED

- **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.

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