

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. Adept at automating deployments, managing APIs, and integrating monitoring tools. Proven ability to enhance system performance and reliability through innovative architectural decisions.

KEY SKILLS

Application Development | Containerization | Backend Engineering Deployment | Automation | Documentation | Agile Software Development | Communication | Analytical | CI/CD Pipelines | Infrastructure as Code

TOOLS & TECHNOLOGIES

Scripting Languages: Python, Shell | **Database Management System:** PostgreSQL, MongoDB, SQL, 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.) loading the data to **AWS RDS**.
- Boosted the stability and speed of data pipelines by **80%** reducing the 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%**.
- Built a real-time Grafana dashboard to track payment KPIs, providing actionable insights and helped with new camera placements.
- Planned and created the end-to-end DevOps automation pipeline for the application.
- Orchestrated Kubernetes Pods in scalable **EKS clusters** to improve uptime by **99%**.
- Maintained **security** and robustness of the application with Private **ECR** registries and secrets manager.
- Maintained **accurate documentation** of API integrations and deployment procedures.
- Utilized **Python, Docker, Kubernetes, AWS MQ, Secrets manager** and **AWS RDS** for application development.

KEY PROJECTS EXECUTED

1. **Project:** A Real-time Scalable Application CI/CD pipeline on Jenkins with Github

Key Achievement: Successfully executed end-to-end project, related to integration and system design to manage infrastructure and orchestration using Kubernetes, Docker, Terraform and Python to streamline the DevOps process.

2. **Project:** AWS Infrastructure Provisioning Demo with Terraform

Key Achievement: Demonstrated a Terraform-based demo to train internal teams on Infrastructure as Code (IaC) 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