

TULASI MUNTIMADUGU

DevOps Engineer · AWS Cloud · CI/CD & Automation · AI-Assisted Engineering
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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

PROFESSIONAL SUMMARY

DevOps Engineer transitioning from 3 years of experience in IT infrastructure and desktop administration, with hands-on skills in Linux, AWS, Infrastructure as Code, CI/CD, Docker, Kubernetes, and monitoring. Built and documented end-to-end DevOps projects spanning AWS infrastructure, Bash automation, Terraform, Ansible, Jenkins, Docker, Kubernetes, Prometheus, Grafana, and centralized logging. Strong foundation in Linux administration, networking, and troubleshooting, with practical experience resolving deployment and configuration issues. Seeking a DevOps Engineer role to apply hands-on cloud and automation expertise while continuing to grow in cloud-native technologies.

TECHNICAL SKILLS

AWS Cloud	Hands-on: EC2 · VPC · S3 · IAM · Route53 · ALB · ASG · RDS · ECR · EKS · CloudWatch Working Knowledge: Lambda · SNS · SQS · CloudFormation · ECS · CloudFront · CloudTrail · Secrets Manager · KMS
IaC & Config	Terraform · AWS CloudFormation · Ansible
Containers&Orchestration	Docker · Kubernetes · Amazon EKS · Helm
CI/CD	Jenkins · Jenkins Pipeline (Jenkinsfile) · GitHub Webhooks · Maven · SonarQube
Monitoring & Logging	Prometheus · Grafana · Loki · Promtail · Node Exporter · AWS CloudWatch
OS& Scripting	Linux (Ubuntu) · Bash Shell Scripting · Cron
Version Control	Git · GitHub · Branching · Pull Requests · Merge Strategies · GitHub Webhooks
AI-Assisted Development	ChatGPT · Claude · GitHub Copilot Used for scripting assistance, YAML generation, Infrastructure as Code, CI/CD troubleshooting, documentation, and solution validation (outputs manually reviewed and tested).

DEVOPS PROJECTS

All projects hands-on built and documented on GitHub. Each repo includes architecture diagram, step-by-step README, and deployment instructions.

1. Linux Automation & Bash Scripting Library [\[GitHub → \]](#)

Stack: Bash · Linux (Ubuntu) · AWS CLI · Amazon S3 · Cron · Git

- Developed three production-style Bash automation scripts for system health monitoring, cloud backup, and Linux user provisioning.
- Built a system health monitoring script to capture real-time CPU, Memory, and Disk utilization using top, free, and df, scheduled through Cron jobs.
- Automated timestamped backups of local directories to Amazon S3 using AWS CLI, with log generation and cleanup of backup files older than 7 days.
- Created a Linux user provisioning script to automate user creation, group assignment, and audit logging for repetitive administration tasks.
- Debugged a CPU reporting issue caused by top capturing its own process spike by implementing top -bn2 | tail -1, and resolved AWS CLI credential configuration issues.

2. AWS Three-Tier Architecture Deployment [\[GitHub → \]](#)

Stack: AWS EC2 · VPC · ALB · Auto Scaling Group · RDS MySQL · IAM · CloudWatch · NAT Gateway · S3

- Designed and deployed a production-style three-tier AWS architecture with public and private subnets across multiple Availability Zones.

- Configured an Application Load Balancer, Launch Templates, and Auto Scaling Group for high availability and automated traffic distribution.
- Deployed Amazon RDS MySQL in private database subnets using Security Group chaining (ALB → EC2 → RDS) to enforce secure network isolation.
- Implemented NAT Gateway for outbound internet access from private instances, IAM least-privilege roles, and CloudWatch alarms for infrastructure monitoring.
- Documented the complete architecture, networking design, deployment process, and troubleshooting following AWS best practices.

3. CI/CD Pipeline — Jenkins, Docker, GitHub Webhooks & AWS ECR [\[GitHub →\]](#)

Stack: Jenkins · Docker · GitHub Webhooks · AWS ECR · AWS CLI · Linux · Nginx

- Built an end-to-end CI/CD pipeline using Jenkins Pipeline as Code (Jenkinsfile), automatically triggered on every GitHub push through Webhooks.
- Designed pipeline stages for source checkout, Docker image build, container health validation using curl, Amazon ECR push, and automated deployment.
- Integrated AWS ECR authentication using aws sts get-caller-identity for dynamic AWS account ID resolution, eliminating hardcoded account details.
- Configured Jenkins credential management and automated Docker container deployment with minimal manual intervention.
- Troubleshoot and resolved real-world issues including Git branch mismatches (master vs main), Docker container name conflicts, and Jenkins AWS credential configuration.

4. End-to-End DevOps Platform — Spring Boot Application (TravelBookStall) [\[GitHub →\]](#)

Stack: Terraform · Ansible · Jenkins · Maven · Docker · Kubernetes (Minikube) · Prometheus · Grafana · Loki · Promtail · Spring Boot · AWS

- Built a complete DevOps platform for a Spring Boot application covering Infrastructure as Code, Configuration Management, CI/CD, Containerization, Kubernetes, Monitoring, and Centralized Logging.
- Provisioned AWS infrastructure using Terraform and automated server configuration using Ansible playbooks for Java, Git, Docker, Maven, and Jenkins installation.
- Designed a Jenkins CI/CD pipeline to automate Maven build, Docker image creation, and application deployment.
- Containerized the application and deployed it on Kubernetes (Minikube) using a 2-replica Deployment and NodePort Service for high availability and external access.
- Implemented a complete observability stack using Prometheus, Grafana, Loki, and Promtail with infrastructure dashboards, Kubernetes pod monitoring, and centralized log aggregation.

PROFESSIONAL EXPERIENCE

Desktop Administrator — Avance Consulting Services, Hyderabad, India

Nov 2022 – Nov 2025

IT consulting firm supporting UK/EU region clients

- Provided technical support and troubleshooting for Linux and Windows environments, resolving operating system, software, hardware, and network connectivity issues for UK/EU-based clients.
- Installed, configured, and maintained Linux systems, applications, drivers, security patches, and software updates.
- Monitored and maintained system hardware, software, and network infrastructure to support day-to-day IT operations.
- Configured and supported OpenVPN using Untangle for secure remote connectivity, troubleshooting VPN-related issues.
- Installed and configured network printers and IP phones, troubleshooting basic network and connectivity issues.
- Implemented and maintained OCS Inventory for hardware and software asset tracking and lifecycle management.
- Performed hardware upgrades and troubleshooting — RAM, hard drives, motherboards — alongside end-user technical support.

Achievements

- ✓ Most Promising Newcomer Award
- ✓ Customer Delight Award

CERTIFICATIONS

AWS Certified Cloud Practitioner (CLF-C02): In Progress, Amazon Web Services

Docker Basics Assessment: May 2026, LearnTube, Credential ID: DJA-B-1-2543210-0

EDUCATION

ADDITIONAL INFORMATION

Work Preference	Remote (Worldwide), Hybrid (Bangalore & Chennai), and Onsite (Hyderabad)
Employment Type	Full-time · Contract (B2B/B2C) · Fixed-Term Contract
Languages	Telugu (Native) · English (Professional Proficiency) · Hindi (Working Knowledge) · Kannada (Basic)
Availability	Immediate Joiner