

# SAMBANA MANOJ KUMAR

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## Skills

- Python, MySQL, AWS, Git, Docker, CI/CD, Kubernetes, Azure, Terraform, Grafana, prometheus, Linux, GitHub, Ansible, GitHub Actions, Jenkins, JIRA, Linux/Unix, ArgoCD, Helm, GitLab CI, GitOps practices, Google Cloud / GCP, Bash/Shell Scripting

## Experience

### Junior Devops Engineer

May 2022 - May 2024

LTI Mindtree

#### Overview:

Worked on automating deployments, managing cloud environments, and supporting container-based applications. Helped maintain reliable CI pipelines, monitored system health and supported smooth releases.

#### Responsibilities:

- Supported AWS-based infrastructure across non-production and production environments, contributing to improved application availability and more consistent release cycles.
- Provisioned cloud infrastructure using Terraform, reducing manual environment setup effort by approximately 40% and minimizing configuration drift across environments.
- Implemented Continuous Integration (CI) pipelines using Jenkins to automate builds and testing, helping reduce build failures and improving code integration reliability.
- Supported Continuous Deployment (CD) using Argo CD and Helm to deploy applications to Kubernetes clusters, enabling controlled rollouts and faster recovery through rollback mechanisms.
- Containerized applications using Docker and supported Kubernetes-based deployments, improving scalability and reducing deployment-related downtime during releases.
- Engineered automation scripts using Python and Bash to handle routine operational and deployment tasks, reducing manual intervention by ~30% and lowering deployment-related errors.
- Assisted in managing self-hosted databases including MongoDB and Redis, helping improve application stability and reduce recurring database-related issues.
- Implemented monitoring and alerting using Prometheus and Grafana, improving visibility into system health and reducing incident detection time.
- Investigated and troubleshooted production incidents, performing initial root cause analysis and contributing to faster issue resolution.
- Collaborated with development teams during release cycles to coordinate builds, deployments, and validations, improving overall deployment efficiency.

## Projects

### AWS Devops CI/CD Pipeline with EKS

🔗 <https://github.com/manojsambana443/aws-devops-ci-cd-eks>

- Developed a fully automated CI/CD pipeline using GitHub Actions to build, test, containerize, and deploy a microservice to Amazon EKS.
- Provisioned AWS infrastructure including VPC, EKS cluster, IAM roles, and networking components using Terraform following IaC best practices.
- Implemented Kubernetes manifests including Deployment, Service, Ingress, ConfigMap, Secret, and Horizontal Pod Autoscaling for reliable rollouts.
- Established comprehensive observability by integrating Prometheus and Grafana for monitoring and Fluent Bit with Amazon CloudWatch for centralized logging.
- Secured the CI/CD pipeline using GitHub OIDC integration with AWS IAM, eliminating the need for long-lived credentials.

### **Cloud Infrastructure Automation on Google Cloud Platform**

🔗 <https://github.com/manojsambana443/gcp-terraform-ansible-mysql>

- Provisioned compute resources on Google Cloud Platform using Terraform for a sample web application.
- Automated server configuration and application setup using Ansible playbooks, including package installation and service management.
- Deployed and configured a MySQL database instance and integrated it with the application backend.
- Validated infrastructure and application health using Linux system monitoring and log analysis.

### **Achievements**

- Microsoft Certified: Azure Fundamentals (AZ-900)
- Microsoft Certified: Azure Administrator Associate (AZ-104)

### **Education**

**LENDI INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
Bachelors

2020