

HEMANSHU MAHAJAN

Shirpur, Maharashtra

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LinkedIn

GitHub

Portfolio

SUMMARY

Entry-level professional with foundational knowledge in Linux, Git/GitHub, Docker, Kubernetes, and Terraform. Familiar with CI/CD practices, Ansible for configuration management, and Python and Shell Scripting for automation tasks. Basic experience with AWS cloud services, Jenkins, and MySQL database management.

EDUCATION

R. C. Patel Institute of Management Research and Development College

2020 – 2025

Integrated Master in Computer Application - **CGPA - 8.7**

Shirpur, Maharashtra

TECHNICAL SKILLS

Languages And Scripting : Python, Java, Shell Scripting.

Operating Systems: Linux and Window.

Version Control And Source Code Management: Git, GitHub.

Containerization And Orchestration: Docker, Kubernetes, Helm.

CI/CD Tools: Jenkins, Gitlab.

Cloud: AWS.

Infrastructure as Code (IaC): Terraform, Ansible.

Observability : Prometheus, Grafana.

Databases: MySQL.

PROJECTS

Automated, Scalable AWS Deployment with Kubernetes and CI/CD

- **Scalable Pipeline Design:** Designed and implemented a CI/CD pipeline for a **Flask/MySQL** application, doubling user capacity from **10,000 to 20,000**.
- **High-Availability System:** Built a robust system using **Docker**, **Kubernetes**, and **Helm**, achieving **99.9% uptime** and reducing downtime by **60%**.
- **Deployment Acceleration:** Accelerated deployment processes by migrating to **Amazon EKS** and automating infrastructure with **Terraform**, boosting efficiency by **30%** and cutting setup time by **80%**.
- **VPC Security Architecture:** Engineered a secure **AWS VPC** to ensure **100% internal traffic isolation**, enhancing network security and compliance.

Cost-Efficient CI/CD Pipeline Management with Jenkins and Terraform

- **Cost Optimization:** Achieved a **40% reduction** in infrastructure costs and a **50% faster** setup time by refining the CI/CD pipeline using **Jenkins** and **Terraform**.
- **Automation of Resource Management:** Developed **AWS Lambda** functions to automate test environment provisioning, reducing manual intervention by **90%**.
- **Automated Reporting:** Integrated **AWS Cost Explorer API** for cost tracking and reporting, improving budget adherence by **20%**.
- **Reliability Enhancement:** Implemented real-time monitoring with **AWS CloudWatch**, boosting pipeline reliability by **30%**.

ACHIEVEMENT

Computer Society Of India (CSI)

04 2024

- 3rd Rank Project Competition

CERTIFICATIONS

- AWS Knowledge Amazon EKS
- AWS Knowledge Cloud Essentials
- Kubernetes for the Absolute Beginners - Hands-on Tutorial