

# HEMANSHU MAHAJAN

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## SUMMARY

DevOps Engineer (Fresher) with hands-on experience in **CI/CD automation**, **Terraform Infrastructure as Code**, and container orchestration using **Docker** and **Kubernetes** on **AWS**. Strong foundation in Linux, monitoring, and cloud networking, seeking an entry-level DevOps / Cloud Engineer role.

## EDUCATION

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

Integrated Master of Computer Application — CGPA: 8.7

2020 – 2025

Shirpur, Maharashtra

## TECHNICAL SKILLS

**Languages & Scripting:** Python, Java, Shell Scripting

**Operating Systems:** Linux (Ubuntu, CentOS), Windows

**Version Control:** Git, GitHub

**Infrastructure as Code:** Terraform, Ansible

**Databases:** MySQL

**Cloud:** AWS (EKS, EC2, VPC, IAM, RDS, S3, ALB)

**Containerization:** Docker, Kubernetes, Helm

**CI/CD:** Jenkins, GitLab, Maven

**Observability:** Prometheus, Grafana, CloudWatch

## PROJECTS

### Cloud Native Blogging Platform ↗

- Designed and deployed a production-ready **cloud-native microservices platform** on **AWS EKS** using modular **Terraform Infrastructure as Code**.
- Implemented end-to-end **CI/CD pipelines** integrating **GitHub**, **Jenkins**, **Maven**, **SonarQube**, **Nexus**, **Docker**, and **Trivy** enabling automated build, artifact management, and **DevSecOps** security scanning.
- Configured **Kubernetes Deployments**, Services, Ingress, ConfigMaps, Secrets, and **Horizontal Pod Autoscaling** ensuring scalability and high availability.
- Integrated **Prometheus** and **Grafana** monitoring with **rolling updates** and **zero-downtime deployments** improving incident detection by 40%.
- **Tech Stack:** AWS, EKS, Terraform, Docker, Kubernetes, Jenkins, SonarQube, Trivy, Prometheus, Grafana

### Three Tier Cloud Native Application ↗

- Designed and deployed a scalable **three-tier architecture** separating frontend, backend, and database layers on **Kubernetes** ensuring modularity and service isolation.
- Containerized applications using **Docker** and managed inter-service communication via **Kubernetes Services**, ConfigMaps, and Secrets.
- Provisioned secure **AWS infrastructure** including **VPC**, public/private subnets, **EC2 worker nodes**, and **Amazon RDS** using **Terraform Infrastructure as Code**.
- Configured **AWS ALB Ingress Controller** for external routing with **load balancing** enabling high availability across multiple pods.
- Implemented **resource limits**, readiness/liveness probes, and basic autoscaling to improve workload stability and reliability.
- **Tech Stack:** React, Flask, PostgreSQL, AWS, Kubernetes, Helm, Terraform, ALB, RDS, Docker

### CI/CD Pipeline for Java Web Application ↗

- Engineered an automated **CI/CD pipeline** using **Jenkins** enabling **Continuous Integration** and **Continuous Deployment** of a Java web application on **AWS EC2**.
- Designed multi-stage pipeline including **code checkout**, **build automation (Maven)**, unit testing, static analysis, artifact packaging, and **Docker image creation**.
- Integrated **GitHub Webhooks** to trigger automated builds, reducing release cycle time by 50% and eliminating manual deployment steps.
- Implemented **Docker image tagging**, version control, and rollback strategy ensuring reproducible builds and reliable deployments.
- Configured **Tomcat** container deployment and automated container lifecycle management.
- **Tech Stack:** Jenkins, GitHub, Maven, Docker, AWS EC2, Tomcat, CI/CD

## ACHIEVEMENTS & CERTIFICATIONS

3rd Rank – CSI Project Competition (04 2024) ↗

AWS Knowledge: Cloud Essentials ↗

AWS Knowledge: Amazon EKS ↗

Kubernetes for Absolute Beginners ↗