

HEMANSHU MAHAJAN

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📍 Shirpur, Maharashtra

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

2020 – 2025

Integrated Master of Computer Application — CGPA: 8.7

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 [🔗](#)