Hemanshu Mahajan

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OBJECTIVE

DevOps Engineer specializing in automating security within CI/CD pipelines, IaC, and cloud environments. Experienced in vulnerability management, compliance, and delivering secure, resilient deployments

TECHNICAL SKILLS:

- **Languages And Scripting:** Python, Shell Scripting.
- **Operating Systems:** Linux and Windows.
- **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:

Project 1: 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:** Designed and deployed a robust system with **Docker**, **Kubernetes**, and **Helm**, achieving 99.9% uptime and reducing downtime by 60%.
- **Deployment Acceleration:** Accelerated deployment processes with **Amazon EKS** and **Terraform** is improving efficiency by 30% and cutting setup time by 80%.
- **VPC Security Architecture:** Engineered a secure **AWS VPC**, ensuring 100% internal **traffic** isolation.

Project 2: 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.
- **Automation of Resource Management:** Developed AWS **Lambda** functions for test environment automation, reducing manual intervention by 90%.
- **Automated Reporting:** Streamlined cost reporting with AWS Cost Explorer API, improving budget adherence by 20%.
- **Reliability Enhancement:** Implemented AWS **CloudWatch** for real-time monitoring, boosting pipeline reliability by 30%.

EDUCATION

R. C. Patel Institute of Management Research and Development College.   Aug 2020 − June 2025
Integrated Master in Computer Application   **CGPA - 8.7**

CERTIFICATIONS

AWS Knowledge: Cloud Essentials

Kubernetes for the Absolute Beginners - Hands-on Tutorial