

Himan Manduja

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PROFESSIONAL SUMMARY

DevOps Engineer Intern candidate with hands-on experience in CI/CD automation, cloud infrastructure, Docker, and Infrastructure as Code (Terraform). Currently learning Kubernetes fundamentals with practical exposure through personal projects. Background in Software Engineering with strong interest in cloud-native and DevOps practices.

EDUCATION

BSc (Hons) Software Engineering

Cardiff Metropolitan University, UK • First Class • 2026

Diploma in Computer Science & Software Engineering

Cardiff Metropolitan University, UK • Merit • 2024

PROJECT EXPERIENCE

Kubernetes Orchestration & Service Mesh - DevOps Project

AWS EKS, Istio, ArgoCD, Terraform

- Architected a production-grade Kubernetes cluster on AWS EKS using Terraform for Infrastructure-as-Code, reducing manual provisioning time by approximately 90%.
- Implemented Istio Service Mesh to manage microservices traffic, enabling mTLS encryption for zero-trust security and granular canary deployment strategies.
- Established a GitOps workflow using ArgoCD to automatically synchronize cluster state from GitHub, ensuring configuration consistency and eliminating drift.
- Integrated Kiali for observability, providing real-time visualization of service topology and network health metrics.

DevSecOps CI/CD Pipeline - DevOps Project

GitHub Actions, OPA, Trivy, Checkov

- Designed a secure CI/CD pipeline integrating Trivy for container image scanning, automatically blocking builds with critical CVEs before deployment.
- Enforced infrastructure compliance using Open Policy Agent (OPA) and Checkov, preventing the deployment of insecure AWS resources (e.g., public S3 buckets) via policy-as-code.
- Implemented secret scanning in pre-commit hooks to prevent credential exposure, ensuring secure software supply chain practices.

Cloud Migration & Containerization - DevOps Project

AWS ECS, Docker, Auto Scaling

- Refactored a legacy multi-tier web application into Docker containers, deploying to AWS ECS Fargate to achieve serverless scalability.
- Configured Auto Scaling Groups based on CPU/Memory utilization metrics to handle variable traffic loads while optimizing compute costs.
- Utilized AWS CloudWatch for centralized logging and monitoring, enabling proactive troubleshooting of application performance issues.

Infrastructure as Code with Terraform - AWS (DevOps Project)

AWS CLI, Terraform

- Created **Terraform** configurations to deploy basic AWS resources such as **EC2** and networking components.
- Followed modular and reusable **IaC** practices.
- Practiced least-privilege **IAM** concepts during infrastructure provisioning.

CERTIFICATIONS & ACHIEVEMENTS

GitHub Foundations - GitHub | Introduction to Jenkins (LFS167) - The Linux Foundation | Introduction to Linux (LFS101) - The Linux Foundation
AWS Cloud Practitioner - AWS | 100 Days of Cloud (AWS) - KodeKloud | 100 Days of DevOps - KodeKloud

SKILLS

Infrastructure & Cloud (Beginner): AWS (EKS, ECS, EC2, IAM, S3, VPC), Terraform (IaC), Ansible, Linux (Bash).
Container Orchestration (Intermediate): Kubernetes (K8s), Docker, Istio (Service Mesh), ArgoCD (GitOps), Helm.
DevOps & Security: GitHub Actions, Jenkins, OPA (Policy-as-Code), Trivy, Checkov, SonarCloud.
Programming: Python, JavaScript (React, Node.js), Java, SQL (PostgreSQL, MySQL).