

# Daoud Hussain

DevOps Engineer

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## SUMMARY

Results-driven DevOps Engineer with expertise in designing and implementing **scalable, multi-cloud** infrastructure using **Terraform**, **Kubernetes**, and **CI/CD** pipelines. Proven track record of ensuring high availability (**99.9%** uptime), automating deployments, and optimizing cloud resources across **AWS**, **GCP**, and **Azure**. Passionate about infrastructure as code (**IaC**), **security** best practices, and monitoring solutions like **Prometheus/Grafana**. Strong technical **writer** and open-source contributor with certifications in AWS and DevOps.

## EDUCATION

**Comsats University Islamabad,**  
*Bachelors (Computer Science)* 📄

02/2021 – 01/2025 | Islamabad

## PROFESSIONAL EXPERIENCE

### 1. Vizz Web Solutions, DevOps and Cloud Engineer 📄

11/2024 – Present | Islamabad, Onsite

- Design and implement **multi-cloud infrastructure** (AWS/GCP/Azure) using Terraform, ensuring **zero-downtime** migrations.
- Automate **CI/CD** pipelines (**GitHub Actions/GitLab CI**) for seamless deployments reducing deployment failures by **30%**.
- Manage containerized apps using **Docker**, **Kubernetes (EKS/AKS/GKE)**, and **ArgoCD** (GitOps)
- Deploy **serverless** solutions (**Lambda/Cloud Functions**) with event-driven scaling **reducing** infrastructure costs by **40%** compared to traditional compute
- Maintain **99.9%** uptime with auto-scaling and multi-region HA, cutting downtime incidents by **40%**.
- Monitor** systems using **Prometheus/Grafana** and cloud-native tools
- Secure cloud environments through **Firewalls**, **VPCs**, **IAM policies**, and compliance **scans**
- Optimize performance using **CDNs**, **Route53**, and **K8s auto-scaling**

### 2. Octaloop Technologies, DevOps Engineer 📄

03/2024 – 11/2024 | Islamabad, Onsite

- Manage AWS infrastructure (**EC2**, **EKS**) with auto-scaling, reducing monthly costs by **25%**.
- Implement **CI/CD** pipelines (**GitHub Actions**) with **code quality** checks and **multi-environment** deployments
- Configure** ALB/NLB with health checks, improving application availability to **99.95%**
- Monitor systems using **Datadog** for metrics, alerts, and dashboards
- Maintain containerized workloads (**ECS**) with **blue-green** deployments
- Optimize **EKS** clusters (**node groups**, **Helm** charts, **RBAC**) for microservices

### 3. PolicyCon, DevOps Eng. Intern 📄

01/2024 – 04/2024 | London, Remote

- Develop CI/CD pipelines using **Azure DevOps** (YAML) for automated deployments
- Provision and manage **Azure cloud resources** (VMs, App Services, Azure SQL) with cost optimization
- Implement **IaC** using ARM templates and Azure Resource Manager
- Configure **Azure Repos** with Git workflows and branch policies
- Monitor systems using **Azure Monitor**, Application Insights, and Log Analytics
- Manage identity/access via **Azure Active Directory** (RBAC, service principals)
- Deploy containerized apps using **Azure Container Instances & AKS**
- Enforce security with **Azure Key Vault**, NSGs, and Security Center

## PROJECTS

### 1. Self-Storage Auction [↗](#)

Deployed and managing "Self Storage Auction," a **MERN** stack bidding platform with **20,000 active users**, ensuring **zero downtime** on **AWS** through **CI/CD pipelines**, auto-scaling, **load balancing**, database **backups**, and **high availability**.

### 2. Hamara-Venue [↗](#)

Deployed the complete infrastructure for Hamaravenue using **Terraform** on **AWS**, cutting provisioning time by **75%**, with **CI/CD** pipelines, **multi-env** setup (staging & prod), **load balancers** for scalability, and **automated** db backups via **shell scripts** and **cron-jobs**.

### 3. Reddit Clone on Kubernetes [↗](#)

Deployed a Next.js Reddit clone on **Kubernetes** with **ingress**, monitored via **Grafana/Prometheus**, improving incident detection speed by **60%**

### 4. HealthIQ [↗](#)

Provisioned resources using **Terraform** and deployed the complete **infrastructure (FE,BE,DB)** of HealthIQ on **Microsoft Azure** across multiple environments (**dev, staging, and prod**) with **CI/CD pipelines** setup.

### 5. Languages Voting GO API [↗](#)

Cloud-Native languages Voting Go Application on **AWS EKS** with **K8s orchestration**, **persistent storage**, **secrets** management, and MongoDB **replica set**.

### 6. ElmonX [↗](#)

Deployed **ElmonX**, an all-in-one NFT marketplace, on AWS. The deployment included **DNS setup with CloudFront**, **CI/CD pipelines** (using GitHub Actions and SonarQube integration), **OWASP** scans, **background health check** workers, and a **monitoring** and **alerting** solutions (CloudWatch and SNS).

## SKILLS

**Cloud:** AWS, Azure, GCP, DigitalOcean, Hetzner, Contabo

**CI/CD:** GitHub Actions, Jenkins (SonarQube, OWASP, Docker, Trivy), GitLab CI, Azure DevOps

**Containerization:** Docker, Kubernetes (EKS/AKS/GKE), ArgoCD

**Monitoring:** Prometheus, Grafana, Datadog, Loki

**IaC:** Terraform, Ansible, CloudFormation, ARM Templates

**Programming & Scripting:** Python Automation, Bash Scripting, Git

## TECHNICAL BLOGS

Stop Depending on DevOps Engineers: Deploy Production-Ready MERN Apps Yourself [↗](#)

Docker: An Ultimate guide to Containerization! [↗](#)

From Zero to K8s Hero: A Beginner's Journey into Kubernetes [↗](#)

Monitoring with Grafana, Promtail, and Loki: A Complete Guide [↗](#)

End-to-End CI/CD Pipeline for Node.js Web Application using AWS Pipeline Services. [↗](#)

## CERTIFICATIONS

• AWS Cloud Practitioner Essentials [↗](#)

• Advanced Testing Practices Using AWS DevOps Tools [↗](#)

• Getting Started with DevOps on AWS [↗](#)

• IEEE Best Programmer of the Month [↗](#)