

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. BetaCodes 📍, *DevOps & Infrastructure Engineer* 02/2026 – Present | Islamabad, Onsite

- Maintain **96% faster** deployment cycles (**1hr → 5min**) by automated CI/CD pipelines using **Jenkins, GitHub Actions**, and **ArgoCD (GitOps)**, delivering **10+ microservices** across **4 environments** (Dev/Staging/UAT/Prod) with **30+ containers** and a **90% deployment** success rate.
- Monitor a **17-node** Kubernetes cluster (**12 workers, 5 masters**) using **Prometheus, Grafana, Loki**, and **Blackbox Exporter**, reducing production downtime by **60%**.
- Manage resilient **PostgreSQL** infrastructure using **CloudNativePG Operator** with automated backups and NAS-mounted cleanup, ensuring **zero data loss** across multiple environments.
- Troubleshoot containerization and service-level issues across **Kafka, Celery, Redis**, and **PostgreSQL**, ensuring stable data streaming and application availability.

2. Vizz Web Solutions 📍, *DevOps & 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**

3. Octalooop 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

PROJECTS

1. Nimar.gov.pk [↗](#)

Led DevOps operations for "NIMAR," a **government-level** Django & React streaming platform with **15+ microservices**, deployed on **Kubernetes** (On-Prem) with **Harbor** registry, **Cloudflare** DNS, and **auto-scaling** up to **100%** within **minutes**. Automated CI/CD using **Jenkins** (Shared-libs), **ArgoCD** (GitOps), and **BuildX** caching across **3** environments. Managed UDP live streams, **FFmpeg**, **Kafka**, **Celery**, **Redis**, and **AI services** (Face Recognition, Speech-to-Text etc). Deployed **Prometheus**, **Grafana**, and **Loki** for cluster-wide monitoring and observability.

2. 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**.

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. 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, Hetzner, Contabo

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

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

System Design: Kafka, Redis, CloudFront, Lambda, SNS (Pub-Sub), SQS, Fan-out, API Gateway

Monitoring: Prometheus, Grafana, Datadog, Loki

IaC: Terraform, Ansible, CloudFormation, ARM Templates

Programming & Scripting: Python Automation, Bash Scripting, Git

TECHNICAL BLOGS

Everything You'll Need to Be a DevOps Engineer [↗](#)

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

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

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

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

CERTIFICATIONS

- AWS Cloud Practitioner Essentials [↗](#)
- Advanced Testing Practices Using AWS DevOps Tools [↗](#)
- Getting Started with DevOps on AWS [↗](#)
- IEEE Best Programmer of the Month [↗](#)