

Abdul Majid

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EDUCATION

National University of Sciences and Technology

Bachelor of Electrical Engineering

Islamabad, PK

May 2024

EXPERIENCE

- Chkk** **Sunnyvale, California (Remote)**
DevOps Engineer *April 2024 – Ongoing*
- Expertise in Kubernetes operations, including the installation and management of **30+** Kubernetes addons, compiling release notes, performing API compatibility checks, conducting end-to-end verification, and automating repetitive tasks to enhance operational efficiency.
 - Designed and implemented CI/CD pipelines to automate workflows and streamline Kubernetes cluster and addon upgrade processes.
 - Developed GitHub linters to enforce code quality standards and enable seamless deployment across multi-cloud environments, including AKS, EKS, and GKE.
 - Managed on-call incident response, being responsible for 24/7 alerts and critical system issues for a week every 6 weeks, ensuring rapid mitigation of outages and maintaining service reliability. Coordinated severity-based responses, utilized tools like PagerDuty, and implemented runbooks to minimize downtime and customer impact.
- xFlow Research** **Islamabad, PK**
DevOps Intern *June 2023 – January 2024*
- Developed expertise in Kubernetes and Docker to efficiently deploy and orchestrate containerized applications.
- IoT Lab SEECs NUST** **Islamabad, PK**
ML Intern *June 2022 – August 2022*
- Implemented face recognition attendance system using OpenCV and deployed the models on edge devices, including Raspberry Pi.

PROJECTS

- Implemented CI/CD Pipeline for Secure S3 Deployment**
- Designed and deployed a GitHub Actions pipeline using OIDC for securely uploading files to an AWS S3 bucket, with role-based access control.
 - Configured S3 buckets, IAM roles, and policies, ensuring secure encryption and access management for file operations in production.
- Scalable Testing Infrastructure using Terraform**
- Built Large-Scale Testing Infrastructure by creating on-demand Kubernetes clusters (**200–300**) using Terraform to improve end-to-end testing workflows, enabling automated test execution and streamlined cluster lifecycle management.
- PodPursuit: Unleashing the Scaling Potential of Kubernetes Clusters (FYDP)**
- Investigated optimal performance for CoreDNS in Kubernetes by determining the ideal point to handle specific request loads.
 - Implemented vertical pod autoscaling for CoreDNS to enhance scalability and responsiveness.
 - Deployed Prometheus and Grafana in a Kubernetes cluster for monitoring and observability.
- Containerization of VOIPmonitor System**
- Led the containerization of the VOIPmonitor system, including client sniffer, server sniffer, and database using Docker, transitioning to Podman to overcome systemd limitations. This reduced the infrastructure requirement from 4 VMs to just 1.
- Release Notes Automation for GitHub Repositories**
- Developed an automated system in Go to fetch, process, and organize GitHub release notes into structured raw and curated formats, ensuring streamlined version management and compliance with production standards.

CERTIFICATIONS

- Certified Kubernetes Administrator (CKA)
- Certified Kubernetes Application Developer (CKAD)
- HashiCorp Certified Terraform Associate (003)

SKILLS

IaC Tools: Terraform

Cloud Platforms: AWS

CI/CD Tools: GitHub Actions

Programming Languages: Golang

Containerization and Orchestration Tools: Docker, Podman and Kubernetes

Monitoring and Logging Addons: Prometheus, Grafana, Datadog Agent, Logging Operator, Fluentd, Fluentbit etc