

# Umar Khan

## Lead DevOps/Cloud Architect

I specialize in creating scalable, secure, and reliable infrastructure, focusing on automating processes to maintain uptime and stability for high-performance applications. With hands-on experience I have developed, architected, automated, and optimized production environments on Kubernetes, Bare metal servers, and VMware using DevOps practices. I am currently working remotely as a Lead DevOps Engineer for a Dubai-based company that specializes in school communication. I am proficient in various DevOps tools such as Kubernetes, Docker, Helm, Gitlab, ArgoCD, Prometheus, Grafana, Terraform, and Ansible.

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## WORK EXPERIENCE

### Lead DevOps Engineer SchoolVoice, UAE

12/2021 - Present

Remote

#### Achievements/Tasks

- Designed and maintained Kubernetes infrastructure, optimizing costs using Spot and On-Demand nodes.
- Set up a local development environment using Docker and Vagrant.
- Implement multiple read databases based on load.
- Create a generic Helm chart for all services.
- Built Python scripts for automation, including Slack bots for deployment and rollback notifications.
- Implemented observability on entire infrastructure and applications using Datadog
- Enhanced security by implementing RBAC, network policies, Falco and container hardening.

### Lead DevOps Engineer VentureDive, PK

07/2019 - 11/2021

Hybrid

#### Achievements/Tasks

- Designed, deployed, and managed Kubernetes clusters on AWS and DigitalOcean.
- Deploy Istio on Kubernetes for service mesh and microservice security.
- Deploy Pixie on Kubernetes to identify application performance bottlenecks.

### Sr.DevOps Engineer Careem, PK

01/2017 - 07/2019

OnSite

#### Achievements/Tasks

- Developed CI/CD pipeline for almost 200 Microservices using Jenkins groovy script
- Write an app using Python to read the user defined yaml for the CICD stage and convert Jenkins Groovy script
- Automating various tasks using Python such as monitoring AWS infrastructure costs and remove orphan resources

### Sr. System Administrator Right Solutions, PK

12/2013 - 01/2017

OnSite

#### Achievements/Tasks

- Deployed and maintained Proxmox VE, a 3-node high-availability cluster, and replicated VMs using Ceph storage.
- Designed, implemented, and maintained high traffic Linux web servers using Nginx, Apache, Varnish, and Nginx Plus for load balancing.

### Sr. System Administrator Arpatech, PK

11/2011 - 12/2013

OnSite

#### Achievements/Tasks

- Install and Maintain VMware ESX environments in Local/Remote Data Centers.

## SKILLS

Kubernetes

Terraform

Docker

Ansible

Terragrunt

Helm

ArgoCD

AWS

Github Action

ELK

Python

Prometheus

Istio

Grafana

AWS RDS

Bash

## PERSONAL PROJECTS

Local Kubernetes Cluster with Vagrant [↗](#)

Deploying AWS EKS cluster using Terragrunt [↗](#)

Implemented AWS Spot instance to cut infrastructure costs by 40%

## EDUCATION

**B.S. Computer Science**  
Preston University

## ACHIEVEMENTS

CKA: Certified Kubernetes Administrator [↗](#)

CCNA: Cisco Certified Network Associate Routing and Switching [↗](#)

CXFF: Cisco Express Foundation for Field Engineers

RHCE: Red Hat Certified Engineer (Training)