

Zeeshan Saeed

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*Critical thinker with an extensive understanding of high-availability architecture and concepts. Purpose-driven professional with the capacity to be a strong team player and work effectively independently. Currently targeting AWS Certified Sysops Administrator. Having experience working in private environments as well as with Public Cloud providers including heavily AWS, and then GCP, Azure, and Digital Ocean. **CKA Certified***

PROFESSIONAL EXPERIENCE

Afiniti,

SENIOR DEVOPS/PLATFORM ENGINEER

Islamabad, Pakistan

Dec 2022–Present

- Developing a robust GO API to seamlessly integrate with another product, enabling a single-click deployment solution in the cloud. This innovative solution leverages Terraform libraries to deploy Kubernetes clusters across cloud providers. It then utilizes Kubernetes and Helm packages to deploy a comprehensive microservices-based solution to the cluster, performing validations, running migrations, and making the solution available to users—all with just one click and a few parameters passed via the backend.
- Writing single click cli-based deployment manager in Python (compatible with python2/3) after understanding complex project designs and packing the complete solution in a single file. The solution can be deployed on two or three VM architectures and different Linux OSes offline without additional support/internet requirements.
- Worked and built Jenkins and Groovy-based pipelines for CI/CD purposes.
- Building GitOps-based CI/CD pipeline for infrastructure deployment in an in-house private cloud.
- Pioneering the documentation and deployment of Kubernetes clusters and Rancher UIs to supercharge in-house development. Pushing the boundaries of K8s capabilities and seamlessly porting legacy applications, including those with shared memory requirements, to ensure full compatibility with K8s.
- Automating daily workloads with diverse scripts, slashing and optimizing build times for pipelines, and integrating open-source code scanning tools like SonarQube to enhance the developer experience.

xFlow Research Inc.

SENIOR ENGINEER

Islamabad, Pakistan

May 2022–Nov 2022

- **Streamlined Deployment:** Automated manual configurations of monitoring stacks and other deployments using Ansible, ensuring efficient and consistent setups.
- **Backend Development:** Built scalable REST APIs using Node.js and Express, integrating them with open-source components and third-party tools for enhanced functionality.
- **Performance Optimization:** Developed APIs to run tasks in parallel on servers, efficiently utilizing multi-core CPUs to overcome Node.js single-thread bottlenecks. Conducted stress testing on APIs using Artillery to identify and eliminate bottlenecks, ensuring optimal application performance.
- **Secure Authentication:** Implemented JWT token-based authentication to enhance app security.
- **Comprehensive Monitoring:** Exported logs using Promtail to Prometheus Grafana and integrated dashboards for detailed performance reviews.

Empire Holding B.V
DEVOPS ENGINEER

**Netherlands (Remotely
from Islamabad)**
Feb 2021–Apr 2022

- **Cluster Management and CI/CD Automation:** Built and managed Rancher-based Kubernetes clusters for both development and production environments. Leveraged GitLab's YAML-based CI/CD pipelines to automatically build, test, and deploy applications to these clusters.
- **Cloud Deployment and GitOps:** Deployed and managed EKS clusters on AWS using `eksctl`, implementing GitOps with GitHub to streamline client products and projects.
- **Infrastructure Management:** Managed infrastructure using VMware ESXi, Ansible, and Terraform. Set up production databases with read replicas and configured backups using scripts and open-source tools.
- **Infrastructure Migration:** Migrated the company's infrastructure from AWS to their servers, ensuring minimal downtime while managing and debugging issues, and porting their self-hosted GitLab and other applications.
- **Client Infrastructure Consolidation:** Migrated a client's scattered infrastructure from various clouds, including DigitalOcean, AWS, Azure, and others, into a unified AWS solution.

zSoft
SYSTEM ADMINISTRATOR

Peshawar, Pakistan
May 2020–Sept 2020

- Set up CentOS-based VMs for deploying PHP applications and hosting MySQL databases, securing servers for PHP and Laravel apps with SSL and hardening measures, and implementing robust database backup policies using open-source solutions.

Upwork
DEVOPS ENGINEER

Remote
May 2020–Present

- **High Availability and Disaster Recovery:** Set up highly available clusters with `repmgr` for PostgreSQL in a master-slave architecture. Automated backups and disaster recovery using AWS Backups and custom scripts for various use cases.
- **API Development:** Wrote NodeJS API for PostgreSQL DB access, providing endpoints for CRUD and parallel processing tasks.
- **Infrastructure Migration:** Ensured seamless migrations from AWS to GCP using Terraform and Ansible.
- **Security and Development:** Set up OpenVPN in VPCs for in-house development and security.
- **Kubernetes Cluster Repair:** Repaired broken K8s cluster to recover crucial data due to internal K8s certificate expiry.
- **Digital Ocean Utilization:** Utilized Digital Ocean databases with backups, K8s clusters with spaces for data retention, and application deployment via CI/CD. Connected and deployed application containers via the Digital Ocean App Platform using GitHub CI/CD.
- **AWS Utilization:** Used AWS VPCs with public and private subnets, CloudFront, Block storages, and WAF to host the production site with caching.
- **Website Optimization:** Utilized AWS Cloudfront and configured it to reduce a heavy frontend WordPress site load time from 30 seconds to 2-3 seconds.

EDUCATION

NATIONAL UNIVERSITY OF SCIENCES AND TECHNOLOGY
Master of Computer Science (Hons)

Islamabad, Pakistan
Sept 2021 - Present

NATIONAL UNIVERSITY OF SCIENCES AND TECHNOLOGY
Bachelor of Computer Science (Hons)

Peshawar, Pakistan
Sept 2016 - August 2020

Muğla Sıtkı Koçman University
BS Computer Science

Muğla, Turkey

CERTIFICATIONS

- Certified Kubernetes Administrator (**Credential ID:** LF-yunrs2j7th)
- Google IT Support Certified

ADDITIONAL SKILLS

- Terraform
- Ansible
- Docker and Kubernetes
- Helm
- Python and Go
- Prometheus and Grafana
- VMware ESXi Management
- Bash, Groovy, Yaml
- Digital Ocean Spaces