

# Ali Akbar Asif

## Senior DevOps Engineer

aliakbarasiff@gmail.com

03002703434

[linkedin.com/in/aliakbarasif](https://linkedin.com/in/aliakbarasif)

Lahore, Pakistan

Senior DevOps Engineer with 5+ years of experience engineering resilient, scalable, and cost-efficient cloud infrastructure. Specialized in Kubernetes, infrastructure automation, observability, and CI/CD delivery, enabling teams to ship faster while maintaining high reliability.

Hands-on experience operating high-availability production systems, keeping platforms stable under real-world load and achieving near zero-downtime operations, while improving overall operational efficiency. Backed by an MS in Data Science from FAST Islamabad, I apply a data-driven mindset to optimize AWS, GCP, and hybrid cloud environments.

## EXPERIENCE

### Senior DevOps Engineer

Tkxel

Dec 2024 - Present

- Took end-to-end ownership of cloud infrastructure, delivering 31% cost reduction through right-sizing and optimization.
- Architected high-availability and disaster recovery (DR) infrastructure for systems handling ~10K RPM, achieving 99.95% uptime.
- Designed and operated production Kubernetes platforms, managing multi-tenant environments and parallel deployments through traffic routing.
- Led the transition from manual releases to continuous delivery using GitOps, enabling predictable and faster sprint-based deployments.
- Implemented predictive and event-driven autoscaling using KEDA to handle sudden traffic spikes and improve system resilience.
- Introduced and managed self-hosted, production-grade services including Redis Sentinel, OpenSearch, and Apache Airflow with custom anomaly detection.
- Established incident management and observability workflows using OpsGenie, New Relic, and centralized logging with Graylog.

## Senior DevOps Engineer

Venturenox

Aug 2023 - Dec 2024

- Engineered and optimized AWS cloud infrastructure to ensure high availability, performance, and cost efficiency.
- Owned production Kubernetes environments, ensuring stability, scalability, and smooth application deployments.
- Automated infrastructure provisioning and environment management using Terraform and CI/CD pipelines.
- Built end-to-end observability using Grafana, Prometheus, Loki, Tempo, Pyroscope, and OpenTelemetry.
- Implemented distributed tracing, centralized logging, and continuous profiling to improve system visibility and troubleshooting.
- Managed data orchestration workflows using Apache Airflow for scheduling and monitoring complex pipelines.
- Led troubleshooting and incident resolution for complex infrastructure issues, reducing downtime and operational risk.
- Collaborated with engineering teams to improve deployment reliability, monitoring standards, and operational best practices.

## DevOps Engineer

Venturenox

Aug 2020 - Jul 2023

- Automated cloud infrastructure using Terraform and Ansible, enabling consistent and repeatable environment provisioning.
- Built and operated Kubernetes-based platforms using Docker, Kubernetes, and Helm to support containerized applications.
- Designed and maintained CI/CD pipelines using Drone CI with self-hosted runners and secure secret management via Vault.
- Implemented monitoring and alerting using Prometheus and Grafana to improve visibility into system health.
- Managed AWS infrastructure including EC2, Network Load Balancers, and autoscaling for production workloads.
- Configured TLS, ingress routing, and DNS using Cert-Manager and Cloudflare to secure application traffic.
- Supported shared storage solutions using Amazon EFS for scalable and persistent application data.

## Cloud Engineer (Intern)

Venturenox

Feb 2020 - Jul 2020

- Containerized microservice-based applications using Docker and Docker Compose.
- Supported Kubernetes deployments by creating manifests and Helm charts for containerized workloads.
- Configured NGINX reverse proxy and Kubernetes Ingress with TLS using Cert-Manager and Cluster Issuers.
- Provisioned and managed GKE infrastructure using Terraform with remote backend state stored in GCS.
- Built foundational experience in Linux, cloud networking, and container orchestration within production-like environments.

## PROJECTS

### Epilogue (Opus – Enterprise Digital Adoption Platform)

- Designed and operated production-grade, highly available cloud infrastructure, ensuring platform stability for enterprise users.
- Led cost optimization initiatives through infrastructure right-sizing and efficiency improvements.
- Enabled scalable delivery of AI-driven guidance using Kubernetes-based deployments and CI/CD automation.

### Testfuse – AI-Driven Personality Insights Platform

- Designed and provisioned AWS infrastructure using Terraform across preview, staging, and production environments.
- Implemented CI/CD pipelines with GitHub Actions and Drone CI for automated and reliable deployments.
- Deployed and managed applications on EKS using Helm charts, ensuring scalability and consistency.

### Levvy – Workflow & Client Management Platform

- Managed and optimized production AWS infrastructure with a strong focus on high availability and reliability.
- Implemented Kubernetes autoscaling to handle workload fluctuations and improve system resilience.

## SKILLS

**Cloud & Platform Engineering:** AWS, GCP, hybrid cloud architectures, high availability, disaster recovery, cost optimization

**Containers & Kubernetes:** Kubernetes (EKS, GKE), Docker, Helm, multi-tenant clusters, traffic routing, production operations

**Infrastructure as Code & Automation:** Terraform, Ansible, GitOps workflows, environment standardization

**CI/CD & Release Engineering:** GitHub Actions, GitLab CI/CD, Drone CI, Argo CD, GitOps-based continuous delivery, blue-green deployments, secure pipelines

**Observability & Reliability Engineering:** Prometheus, Grafana, Loki, Tempo, Pyroscope, Faro, Alloy, Oncall, OpenTelemetry, Graylog, Newrelic, Cloudwatch, Alerting, incident readiness, system reliability

**Scaling & Performance:** Kubernetes autoscaling, Karpenter, KEDA, ELB, Cloud Load Balancing, performance tuning

**Security & Compliance:** HashiCorp Vault, AWS WAF, Cloudflare Tunnels, CNAPP Orca, Trivy, container and secret security

**Scripting & Automation:** Bash, Python, YAML

**Operating Systems & Environments:** Linux, Windows Server, staging and production environments, ephemeral preview environments per GitHub PR

## Certification

### **Certified Kubernetes Administrator**

[The Linux Foundation](#)

Expires: July 01, 2027

## EDUCATION

### **MS Data Science**

**National University of Computer and Emerging Sciences**

Aug 2019 - Jul 2021

### **Software Engineering**

**COMSATS University, Islamabad**

Sept 2014 - Jul 2018