

MUHAMMAD AFNAN SIDDIQUI

DEVOPS ENGINEER - AWS Cloud Infrastructure, Terraform, & CI/CD Automation

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SKILLS

- **Programming & Scripting:** Python, Bash, YAML, SQL for automation, configuration, and data operations.
- **Cloud & Infrastructure:** AWS (EC2, S3, RDS, IAM, VPC, CloudWatch, Lambda, EKS, ElastiCache, ElasticSearch), Terraform, CloudFormation.
- **CI/CD & Containerization:** Jenkins, Maven, Nexus, SonarQube, GitHub Actions, Docker, Kubernetes (EKS), Helm charts.
- **Configuration Management:** Ansible playbooks, roles, and idempotent automation for system provisioning.
- **Security & DevSecOps:** Container vulnerability scanning (Trivy), IAM least-privilege policies, VPC security.
- **Monitoring & Observability:** Prometheus, Grafana, Datadog (APM), AWS CloudWatch, logging, alerting.
- **Version Control & Collaboration:** Git, GitHub, GitLab workflows, branching, collaboration practices.
- **Operating Systems:** Linux (Ubuntu, Amazon Linux), Windows Server administration system management.

WORK EXPERIENCE

DevOps Engineer

CodeX – Frome Social Media Chat Application

August 2021 – Present

Karachi, Pakistan (Remote)

- Engineered CI/CD pipelines using Jenkins, Maven, Nexus, and SonarQube, integrating Trivy for container security, automating build, test, and deployment workflows, and reducing release cycle time by 40%.
- Containerized microservices with Docker and deployed to AWS EKS using Helm charts, standardizing production workloads and supporting 3× traffic growth without service disruption.
- Automated AWS infrastructure provisioning using Terraform and CloudFormation, enabling repeatable environments and reducing manual infrastructure setup time by 70%.
- Architected secure AWS VPC with multi-region peering, subnet segmentation, and IAM least-privilege policies, improving cross-region communication latency by 35% and strengthening cloud security posture.
- Built end-to-end observability stack using Prometheus, Grafana, CloudWatch, and Datadog (APM and log monitoring), reducing MTTR by 45% and improving production incident response.
- Configured ElasticSearch clusters for centralized logging and Redis caching with ElastiCache, improving log query times by 50% and application response times by 30%.
- Automated S3 backups with Lambda, ensuring high availability and data integrity.

DevOps Intern

CodeX

May 2021 – August 2021

Karachi, Pakistan

- Provisioned AWS infrastructure (EC2, S3, IAM, Route53) and implemented Terraform modules, multi-stage environment setups, improving deployment efficiency by 25–30% and reducing configuration errors by 40%.
- Designed and maintained CI/CD pipelines using GitHub Actions, improving build reliability by 35% and enabling smoother, automated deployments.
- Monitored Linux servers and assisted in troubleshooting system processes, networking, and permissions, contributing to 99.8% system uptime across development environments.
- Developed and initiated Bash scripts to streamline routine DevOps operations, reducing manual deployment preparation by 30%.
- Collaborated with development teams to align infrastructure configurations, improving deployment reliability by 40% and ensuring consistent performance across all cloud-based applications.

EDUCATION

Post Graduate Certificate in Mobile Application Development

Fanshawe College, Ontario

September 2023 – December 2024

Bachelors of Computer Science

DHA Suffa University, Karachi Pakistan

January 2017 – August 2022

CERTIFICATIONS

- **AWS Certified Cloud Practitioner**
- **AWS Certified Solutions Architect – Associate**