NABEEL SARFRAZ

Senior DevOps Engineer

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PROFESSIONAL SUMMARY

Results-driven DevOps Engineer with 1.5+ years of specialized experience in AWS cloud infrastructure, CI/CD automation, and containerization. Demonstrated expertise in designing and implementing scalable, secure, and cost-efficient cloud solutions for high-traffic applications. Proven track record of reducing deployment times by 70% and infrastructure costs by 35% through automation and optimization. Passionate about cloud-native architectures, Infrastructure as Code, and enabling cross-team collaboration to drive business outcomes.

CORE COMPETENCIES

- **Cloud Architecture:** AWS infrastructure design, multi-environment deployments, high availability systems
- **Infrastructure as Code:** Terraform modules, CloudFormation, reusable infrastructure patterns
- **CI/CD Pipelines:** GitHub Actions, Jenkins, AWS CodePipeline, zero-downtime deployments
- **Containerization:** Docker, ECS, ECR, container orchestration, microservices
- **Configuration Management:** Ansible playbooks/roles, infrastructure automation
- **Monitoring & Observability:** ELK Stack, CloudWatch, centralized logging, alerting
- **Security & Compliance:** IAM, secrets management, vulnerability scanning, SSL/TLS
- **Cost Optimization:** Resource rightsizing, auto-scaling, spot instances, lifecycle policies

PROFESSIONAL EXPERIENCE

Senior DevOps Engineer | Kryptomind LLC

May 2023 – Present (1+ year)

Lead DevOps engineer responsible for designing, implementing, and managing cloud infrastructure and CI/CD pipelines for multiple high-profile blockchain and cryptocurrency projects.

Key Achievements:

- Reduced deployment time by 70% and eliminated manual errors by implementing fully automated CI/CD pipelines for 10+ projects
- Decreased cloud infrastructure costs by 35% through resource optimization, spot instances, and auto-scaling strategies
- Improved system reliability with 99.95% uptime by implementing robust monitoring, alerting, and automated recovery procedures
- Accelerated development cycles by 40% through standardized environments and infrastructure templates

Infrastructure & Cloud Architecture:

- Architected and implemented modular, reusable Terraform infrastructure for multi-environment AWS deployments, ensuring consistent configurations across development, staging, and production
- Designed and deployed high-availability architectures using AWS ECS, EC2 Auto Scaling Groups, and Application Load Balancers across multiple availability zones
- Implemented comprehensive networking with VPC design, security groups, NACLs, and private subnets for enhanced security posture
- Managed Route 53 for DNS management, custom domains, and traffic routing strategies for blue/green deployments

CI/CD & Automation:

- Engineered advanced CI/CD pipelines using GitHub Actions, Jenkins, and AWS CodePipeline for React, Flask, and Laravel applications with automated testing, security scanning, and deployment
- Implemented zero-downtime deployment strategies with blue/green and canary deployments for critical production services
- Developed comprehensive Ansible playbooks for automated server provisioning, configuration management, and application deployment
- Created custom AWS Lambda functions for infrastructure automation, image processing, and event-driven workflows

Containerization & Orchestration:

- Containerized microservices using Docker with optimized multi-stage builds, reducing image sizes by 60%
- Orchestrated container deployments on AWS ECS with task definitions, service discovery, and auto-scaling
- Implemented ECR lifecycle policies and automated container vulnerability scanning in CI/CD pipelines
- Designed Docker Compose configurations for local development environments matching production

Monitoring, Logging & Security:

- Established centralized logging infrastructure using ELK stack (Elasticsearch, Logstash, Kibana) with Filebeat and Metricbeat agents across 20+ VMs
- Implemented comprehensive monitoring with CloudWatch dashboards, alarms, and automated incident response
- Secured infrastructure with IAM roles, policies, and least privilege principles
- Automated secrets management using AWS Secrets Manager and Parameter Store with secure rotation policies
- Implemented automated database backup strategies with point-in-time recovery capabilities

KEY PROJECTS

TheTrumpToken (Kryptomind)

A pioneering political cryptocurrency platform supporting Donald J. Trump's initiatives with high-traffic requirements and security considerations.

Implemented scalable AWS infrastructure handling 50,000+ daily users with 99.99% uptime and automated CI/CD pipelines reducing deployment time from hours to minutes.

Technologies: AWS (EC2, ECS, S3, CloudFront, Route 53), Terraform, GitHub Actions, Docker, CloudWatch

Live Site

Tajir Media (Kryptomind)

Digital currency platform on Solana blockchain requiring high-performance infrastructure and secure transaction processing.

Designed and implemented secure cloud architecture with automated scaling to handle transaction spikes and reduced infrastructure costs by 30%.

Technologies: AWS (ECS, RDS, Lambda), Terraform, Jenkins, Docker, ELK Stack

Live Site

BitRock (Kryptomind)

Crypto wallet app for storing and retrieving digital assets with strict security and compliance requirements.

Implemented containerized microservices architecture with automated security scanning, reducing vulnerabilities by 85% and improving deployment reliability.

Technologies: AWS (ECR, ECS, CloudWatch), Docker, Terraform, GitHub Actions, IAM

Live Site

Enterprise-Grade Logging & Monitoring Platform

Designed and implemented a centralized observability solution for the entire organization's infrastructure.

Reduced incident response time by 65% and improved system reliability through proactive monitoring and alerting across 20+ production systems.

Technologies: ELK Stack, Filebeat, Metricbeat, Docker Compose, Ansible, AWS EC2, CloudWatch

- Architected scalable ELK stack deployment with index lifecycle management and data retention policies
- Implemented automated agent deployment and configuration across heterogeneous environments
- Created custom Kibana dashboards for application performance, security events, and infrastructure metrics
- Integrated with alerting systems for proactive incident detection and response

TECHNICAL SKILLS

- **AWS Services:** EC2, ECS, ECR, S3, Lambda, VPC, IAM, Route 53, CloudFront, Amplify, RDS, CloudWatch, SNS, SQS, Secrets Manager, Parameter Store
- **Infrastructure as Code:** Terraform (modules, workspaces, remote state), CloudFormation
- **CI/CD:** GitHub Actions, Jenkins, AWS CodePipeline, CodeBuild, CodeDeploy
- **Containerization:** Docker, Docker Compose, ECS, container security, multi-stage builds
- **Configuration Management:** Ansible (playbooks, roles, collections), Bash scripting
- **Monitoring & Logging:** ELK Stack, Filebeat, Metricbeat, CloudWatch, Uptime Kuma, Grafana
- **Programming & Scripting:** Python, Bash, YAML, JSON, HCL (Terraform)
- **Databases:** MySQL, PostgreSQL, MongoDB, RDS, backup strategies
- **Security:** IAM policies, secrets management, SSL/TLS, vulnerability scanning, network security
- **Version Control:** Git, GitHub, GitLab, branching strategies, code reviews
- **Other:** VMware ESXi, Linux administration, networking fundamentals, DNS management

OPEN SOURCE CONTRIBUTIONS

Terraform AWS ECS Fargate Infrastructure

Modular IaC project for provisioning production-ready AWS ECS Fargate clusters with best practices.

Terraform, AWS ECS, Fargate, VPC, ALB, CloudWatch

GitHub

Amazon ECS Fullstack App

Reference architecture for deploying fullstack applications on ECS with CI/CD automation.

Terraform, AWS CodePipeline, ECS, Docker

GitHub

K8s Kind Voting App

Educational project demonstrating container orchestration patterns across platforms.

Kubernetes, Docker, Docker Compose, Swarm

GitHub

Terraform + Ansible Multi-Environment

Infrastructure framework for managing multi-environment deployments with IaC.

Terraform, Ansible, AWS, environment management

GitHub

EDUCATION & CERTIFICATIONS

Education

- **Diploma in Computer Science – DevOps & Serverless**
  Systems Limited | 2023 – 2024
- **BSc Mechanical Engineering**
  UET Lahore | 2013 – 2017

Certifications

- **AWS Certified Solutions Architect Associate**
  (In Progress - Expected July 2025)
- **HashiCorp Certified: Terraform Associate**
  HashiCorp
- **Docker Certified Associate**
  Docker, Inc.

PROFESSIONAL DEVELOPMENT

- Active contributor to DevOps community forums and knowledge sharing platforms
- Regular participant in AWS and DevOps webinars and workshops
- Continuously exploring emerging technologies in cloud-native architecture and containerization
- Mentoring junior team members in DevOps practices and cloud technologies