NABEEL SARFRAZ

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 technologies. Demonstrated expertise in reducing deployment time by 70% and infrastructure costs by 35% through automation and optimization strategies. Proven track record of implementing scalable, secure cloud solutions across diverse platforms including e-commerce, appointment scheduling, and e-learning systems that maintain 99.95% uptime while accelerating development cycles by 40%. Adept at diagnosing and resolving complex system issues with exceptional troubleshooting capabilities.

> ***Career Objective:*** *To leverage my DevOps expertise in building resilient, scalable cloud infrastructure while continuously expanding my knowledge in emerging technologies like Kubernetes, serverless architectures, and infrastructure automation.*

CORE TECHNICAL EXPERTISE

- **AWS Cloud Infrastructure:** EC2, ECS, ECR, Lambda, VPC, IAM, Route 53, CloudFront, S3, RDS, CloudWatch (Logs, Metrics, Alarms), Amplify, NAT Gateway
- **Infrastructure as Code:** Terraform (modules, workspaces, remote state), CloudFormation
- **CI/CD & Automation:** GitHub Actions, Jenkins, zero-downtime deployments
- **Containerization:** Docker, Docker Compose, ECS, container security, multi-stage builds
- **Monitoring & Observability:** ELK Stack, CloudWatch, Grafana, Centralized Logging
- **Security & Compliance:** IAM policies, security groups, secrets management, SSL/TLS, vulnerability scanning
- **Web & Application Servers:** Nginx, Apache, Application Load Balancers
- **Programming & Scripting:** Python (boto3, Pandas, Streamlit), Bash, YAML, JSON, HCL (Terraform)

PROFESSIONAL EXPERIENCE

DevOps Engineer | Kryptomind LLC

May 2023 – Present

Lead DevOps engineer spearheading cloud infrastructure design and implementation for high-profile blockchain and cryptocurrency projects, with focus on scalability, security, and operational excellence.

> **Key Business Impact:**
> - **Reduced deployment time by 70%** through implementation of fully automated CI/CD pipelines across 10+ projects
> - **Decreased cloud infrastructure costs by 35%** by implementing resource optimization and auto-scaling strategies
> - **Achieved 99.95% system uptime** by designing and implementing robust monitoring and automated recovery procedures
> - **Accelerated development cycles by 40%** through standardized environments and infrastructure templates

Cloud Architecture & Infrastructure:

- Designed and implemented modular, multi-environment AWS infrastructure using Terraform, ensuring consistent configurations across development, staging, and production
- Architected high-availability solutions 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, enhancing security posture
- Deployed frontends on AWS Amplify with continuous deployment from GitHub repositories and set up S3 buckets with CloudFront for static assets

CI/CD & Deployment Automation:

- Engineered advanced CI/CD pipelines using GitHub Actions for JavaScript and Python applications with automated testing, security scanning, and deployment
- Implemented zero-downtime deployment strategies rolling deployments, reducing service disruptions by 95%
- Developed comprehensive Ansible playbooks for automated server provisioning and configuration management across 20+

environments

- Created custom AWS Lambda functions for infrastructure automation, image processing, and event-driven workflows

Monitoring, Logging & Security:

- Established centralized logging infrastructure using ELK stack with Filebeat and Metricbeat agents, enabling real-time visibility across distributed systems
- Implemented comprehensive monitoring with CloudWatch dashboards, alarms, and automated incident response
- Secured infrastructure with IAM roles, policies, and least privilege principles, creating limited-access IAM users for specific operations
- Automated secrets management using AWS Secrets Manager and Parameter Store with secure rotation policies

KEY PROJECTS

ResQ Platform Infrastructure | Kryptomind

Led DevOps initiatives for the ResQ platform—which enables customers to schedule appointments and receive real-time updates—playing a key role in automating infrastructure, optimizing deployments, and enabling communication services. [View Architecture Diagram]

Business Impact: *Reduced deployment time by 70% and enabled zero-downtime rolling deployments, improving customer experience*

Technologies: AWS (ECS, ECR, EC2, RDS, ALB, VPC, Amplify, S3, CloudFront), Terraform, GitHub Actions, Docker, Nginx, Ansible, Twilio

- Implemented GitHub Actions pipelines for automated deployments to both local VMs and AWS ECS, handling Docker image builds, ECR pushes, and ECS service updates
- Architected and deployed AWS infrastructure using Terraform, including ECS clusters, ECR repositories, ALB, and custom VPCs with security groups
- Configured Nginx for path-based routing to host React frontend and WordPress on the same domain
- Set up Twilio for branded RCS messaging and SMS/email notifications for appointment updates
- Optimized RDS parameter groups and EC2 performance, resolving high database load issues

CloudWatch Log Analyzer | Kryptomind

Developed a robust CloudWatch Log Analyzer application that enables efficient analysis of AWS CloudWatch logs across multiple AWS profiles, providing interactive dashboards and advanced filtering capabilities.

Business Impact: *Reduced log analysis time by 80% and enabled cross-account visibility for faster troubleshooting*

Technologies: Python, Streamlit, Pandas, AWS SDK (boto3), Docker, CloudWatch Logs API, AWS IAM

- Implemented a secure multi-profile selection system allowing users to seamlessly switch between different AWS accounts and regions
- Created dynamic visualizations for log patterns, error trends, and time-based analysis with interactive dashboards
- Engineered a Docker-based solution with optimized configuration for consistent deployment across environments
- Developed sophisticated filtering capabilities by time range, log level, and custom patterns
- Implemented efficient caching strategies and session management, resulting in minimal resource utilization (0.01% CPU)
- Integrated secure AWS credential handling with proper IAM role support

LearnSpot E-Learning Platform

Business Impact: *Reduced deployment time by 65%, streamlined development workflow*

Technologies: AWS (ECS, ECR, ALB, Amplify, S3, CloudFront), Terraform, GitHub Actions, Docker

- Set up CI/CD pipelines for both on-premises and AWS deployments
- Deployed infrastructure using Terraform with modular components
- Deployed frontend on AWS Amplify with continuous deployment
- Created IAM user with limited access policies for S3 operations

TajirMedia E-Commerce Solution

Business Impact: *Enabled consistent deployments with 99.9% reliability*

Technologies: AWS (ECS, ECR, RDS, ALB, Amplify, S3, CloudFront), Terraform, GitHub Actions, Docker

- Created CI/CD workflows for on-premises and AWS deployments
- Deployed AWS infrastructure using Terraform for production
- Set up ECS services with ECR repositories for containerized apps

- Configured ALB for routing traffic to appropriate services

TheTrumpToken Infrastructure Optimization

Business Impact: *Eliminated outages, improved processing speed by 40%*

Technologies: AWS (EC2, ECS, CloudWatch, Amplify, S3, CloudFront), Terraform, Docker

- Implemented auto-scaling policies based on custom metrics
- Deployed frontend on AWS Amplify for continuous deployment
- Set up S3 bucket with CloudFront for static assets
- Created IAM user with limited access to S3 bucket only

Centralized Logging & Diagnostics Platform

Business Impact: *Reduced diagnostic time, 60% faster incident resolution*

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

- Architected scalable ELK stack with index lifecycle management
- Created custom Kibana dashboards for application monitoring
- Implemented automated log rotation and retention policies
- Set up real-time alerting for critical system events

TECHNICAL TROUBLESHOOTING & OPTIMIZATION

- **Performance Optimization:** Identified and resolved database bottlenecks in RDS instances by optimizing query patterns and implementing connection pooling, reducing average query time by 65%
- **Resource Management:** Implemented AWS cost optimization strategies including right-sizing instances, scheduled scaling, and spot instance usage, resulting in 35% cost reduction
- **Security Hardening:** Conducted comprehensive security audits and implemented least-privilege IAM policies, network security groups, and encryption at rest/transit across all services
- **Incident Response:** Developed automated recovery procedures for common failure scenarios, reducing mean time to recovery (MTTR) from hours to minutes
- **Deployment Debugging:** Created specialized tools for diagnosing CI/CD pipeline failures and container deployment issues, improving developer productivity

EDUCATION & CERTIFICATIONS

Education

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

Certifications & Training

- **AWS Technical Essentials**
  AWS Training and Certification
- **Docker and Kubernetes: The Complete Guide**
  Udemy
- **Terraform for AWS - Beginner to Advanced**
  Udemy