M Hamza Razzaq

DevOps Engineer, 4x AWS, 2x Kubernetes, Terraform Certified

+971 55 103 9986
mhamzarazzaq97@gmail.com
Linkedin, Github
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Experience Summary

Bachelor's degree (4 years) in Computer Science with 4+ years of software industry experience.

4 years of hands-on experience in designing and in developing highly secure, fault tolerant, scalable, highly available, and cost-efficient solutions on AWS and Kubernetes.

An experienced team player with excellent communication skills and has the ability to work independently.

Experience of working in Agile Development and Scrum Model.

Technical Skills

AWS	Terraform, IAM, VPC, S3, EC2, EKS, ECS, RDS, Route53, ELB, ASG, Cloudfront, Opensearch, AWS SSO, Secret Manager, Lambda, CloudWatch, StepFunctions, SNS, SQS, KMS, Cloudformation, ElastiCache and others
Kubernetes	Kubernetes, Helm, Kustomize, ArgoCD, FluxCD, Karpenter, Kyverno, EFK Stack (Fluentbit, Fluentd, Elasticsearch), External Secrets, Cert Manager, Lens, Docker, Docker Compose
CICD	Github Actions, ArgoCD, FluxCD, Gitlab CICD, Jenkins, CircleCI, CodeDeploy, CodePipeline
Languages	Python, Bash, Terraform HCL, YAML
Others	Linux, SSO, NGINX, Certbot, New Relic, Git, OpenVpn

Experience

Callsign — DevOps Engineer — Abu Dhabi, UAE (Current)

Technologies: AWS, Kubernetes, Helm, Karpenter, Docker, EFK Stack, Terraform, Gitlab

- Successfully led the migration of many applications from Kubernetes 1.23 to Kubernetes 1.27.
- During the Kubernetes 1.27 migration, skillfully resolved various issues, including those pertaining toKubernetes api version, Fluent Bit, Fluentd, Flux, and other components.
- Contributed to the successful migration of Kubernetes autoscaling from AWS Auto Scaling Groups (ASG) to Karpenter.
- Collaborated on enhancing and improving Terraform code.
- Actively participated in the development of new features planned for future releases, and played a key role in implementing various architectural improvements.
- Provided on-call support and resolved critical production issues, ensuring uninterrupted service availability and minimizing downtime.

EMPG Labs — DevOps Engineer — Lahore, Pakistan

Technologies: AWS, Kubernetes, Docker, EFK Stack, ArgoCD, Terraform, Github Actions, Jenkins, Bash, Python

- Lead application migrations to Docker and Kubernetes, ensuring smooth deployment and improved scalability.
- Utilized a variety of tools, including ArgoCD, ALB Ingress Controller, Helm, Kustomize, External Secrets, ARC, and Cert Manager and others.
- Developed a resilient and self-healing CICD framework using Github Actions and ArgoCD for faster and automated deployments.
- Created a central logging framework with Opensearch and Fluentbit, providing real-time application logging for developers.
- Maintained AWS infrastructure using IaC tools like Terraform, optimizing resource management.
- Wrote bash and python scripts for automating day-to-day tasks.
- Set up AWS SSO with ArgoCD and Openseach for easy and secure access.
- Implemented a real-time monitoring solution for application endpoints using Cloudwatch Alarms, Metrics, and Chatbot.

Arbisoft — DevOps Engineer — Lahore, Pakistan

Technologies: AWS, Kubernetes, Docker, Terraform, Jenkins, Nginx, NewRelic, CircleCI, Bash, Python

- Successfully contributed to the migration of their AWS infrastructure from standalone EC2 machines to an auto-scaling group-based architecture.
- Played a key role in creating and enhancing CICD pipelines, utilizing CircleCI and AWS CodeDeploy, to ensure faster delivery of applications.
- Proficiently authored cloudformation scripts for streamlined infrastructure provisioning.
- Implemented Nginx performance tuning, resulting in over 70% reduction in application response time.
- Developed effective bash scripts to automate repetitive manual tasks, optimizing workflow efficiency.
- Configured New Relic as an APM tool to gain valuable insights into application performance, enabling better monitoring and optimization.

Northbay Solutions — DevOps Engineer — Lahore, Pakistan

Technologies: AWS, IaC, S3, IAM, EC2, RDS, ECS, Config, Route53, Elascache, Codepipeline, ALB, ASG and others

- Proficiently authored reusable IaC scripts in CloudFormation and Terraform, streamlining infrastructure provisioning processes.
- Contributed in designing architecture for successful application migration from Rackspace to ECS.
- Developed workflow orchestration for AWS Lambda functions using step functions.
- Set up SFTP server on AWS using AWS Transfer Service, ensuring secure and reliable data transfer.

Education

Punjab University College of Information and Technology — *Bachelor's in Software Engineering*

(3.62 CGPA) 2015 - 2019

Certifications

AWS Certified DevOps Engineer - Professional

Certified Kubernetes Administrator

AWS Certified Solutions Architect - Associate

Certified Kubernetes Application Developer

AWS Certified Developer - Associate

Terraform Certified Associate

AWS Certified Cloud Practitioner

Achievements

Golden Badge in Python programming language on Hackerrank.

Winner in 2 programming competitions held at UET, GCU and Comsats Lahore.