

# M Hamza Razzaq

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

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## Experience Summary

Bachelor's degree (4 years) in Computer Science with 5 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

<b>AWS</b>	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
<b>Kubernetes</b>	Kubernetes, Helm, Kustomize, ArgoCD, FluxCD, Karpenter, Kyverno, Trivy, EFK Stack (Fluentbit, Elasticsearch), External Secrets, Cert Manager, Lens, Docker, Docker Compose
<b>CICD</b>	Github Actions, ArgoCD, FluxCD, Gitlab CICD, Jenkins, CodeDeploy, CodePipeline
<b>Languages</b>	Python, Bash, Terraform HCL, YAML
<b>Others</b>	Linux, SSO, NGINX, Certbot, New Relic, Git

## Experience

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

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

- Worked on security of the applications to make them kyverno and trivy compliant to effectively minimizing security risks and enhancing overall security measures.
- Successfully led the migration of multiple applications from Kubernetes 1.23 to Kubernetes 1.27.
- During the Kubernetes 1.27 migration, skillfully resolved various issues, including those pertaining to Kubernetes api version, Fluentbit, 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 Opensearch 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.