Muhammad Hamza Razzaq

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

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Profile 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 developing highly secure, fault tolerant, scalable, highly available, and cost-efficient solutions on AWS and Kubernetes ecosystem.

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 Cloud:** Terraform, IAM, VPC, S3, EC2, EKS, ECS, RDS, Route53, ELB, ASG, Cloudfront, Opensearch, MSK, Elasticache, Secret Manager, Lambda, CloudWatch, SNS, SQS, KMS, Cloudformation, ElastiCache and others

- **Kubernetes Ecosystem:** Kubernetes, Helm, Kustomize, ArgoCD, FluxCD, Karpenter, Kyverno, Trivy, External Secrets, Cert Manager, Lens, Docker, Docker Compose

- **CI/CD:** Github Actions, ArgoCD, FluxCD, Gitlab Pipelines, Jenkins, CodeDeploy, CodePipeline

- **Programming Languages:** Python, Bash, Terraform HCL, YAML

- **Observability:** Prometheus, Grafana, Elasticsearch, NewRelic

- **Soft Skills:** Communication, Critical Thinking, Problem Solving, Teamwork, Adaptability

Professional Experience

DevOps Engineer — Callsign Technologies   **Abu Dhabi, UAE** *01/2023 - present*

- Oversaw seamless deployments of the product across multiple environments, guaranteeing zero down time and high availability.
- Successfully led version upgrade of AWS MSK Clusters ensuring zero downtime.
- Contributed to kyverno and trivy compliance of the applications to minimize security risks and enhance overall security measures.
- Successfully led Kubernetes migrations from version 1.23 to 1.27 and then to 1.29.
- During the Kubernetes migrations, skillfully resolved various issues, including those related to the 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.
- Responsible for on-call support to resolve critical production issues, ensuring uninterrupted service availability.

DevOps Engineer — Dubbizle Labs   **Lahore, Pakistan** *02/2022 - 01/2023*

- Oversaw application migrations to Docker and Kubernetes, ensuring smooth deployment and improved scalability.
- Leveraged a variety of tools, including ArgoCD, ALB Ingress Controller, Helm, Kustomize, External Secrets, ARC and others.
- Designed and developed CICD solution using Github Actions and ArgoCD for faster and automated deployments.
- Created a central logging solution with Opensearch and Fluentbit, providing real-time application logging for developers.
- Maintained AWS infrastructure using IaC tools like Terraform, optimizing resource management.
- Worked on writing bash and python scripts for automating day-to-day tasks.
- Set up AWS SSO with ArgoCD and Openseach for easy and secure access.

DevOps Engineer — Arbisoft   **Lahore, Pakistan** *02/2021 - 02/2022*
- Contributed to the migration from standalone EC2 machines to an auto-scaling group based architecture.
- Played a key role in enhancing CICD pipelines, utilizing CircleCI and AWS CodeDeploy, to ensure faster delivery of applications.
- Worked on writing reusable CloudFormation scripts for seamless infrastructure provisioning.
- Optimized Nginx performance through tuning, resulting in over 70% reduction in application response time.
- Worked on writing bash scripts to automate repetitive manual tasks, optimizing workflow efficiency.
- Configured New Relic as an APM tool to get valuable insights of application performance.

Software Engineer — Northbay Solutions   **Lahore, Pakistan** *07/2019 - 02/2021*
- Worked on writing reusable IaC scripts in CloudFormation and Terraform for seamless infrastructure provisioning.
- 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

Bachelor's in Software Engineering *Punjab University College of Information and Technology*   *2015-2019*
Relevant Courses: Data Structures, Algorithms, Object Oriented Programming, Databases, Machine Learning & others
CGPA: 3.62/4

Certifications

- AWS Certified DevOps Engineer - Professional
- AWS Certified Solutions Architect - Associate
- AWS Certified Developer - Associate
- AWS Certified Cloud Practitioner
- Certified Kubernetes Administrator
- Certified Kubernetes Application Developer
- Terraform Certified Associate