Hussain Mohammad

+91-6309959818 | officiallyhussain786@gmail.com | Hyderabad, India

Professional Summary

Cloud Automation Engineer with 2.5 years of experience in Infrastructure as Code (IaC), Python Automation, and DevOps. Specializes in provisioning secure, scalable AWS environments using Terraform and building internal platform tools with FastAPI. Proven track record of reducing cloud costs through FinOps strategies and optimizing CI/CD pipelines for zero-downtime deployments.

Technical Skills

- Cloud Platforms: AWS (VPC, EC2, S3, IAM, RDS, Lambda, CloudWatch, Route53, EKS).
- Infrastructure as Code: Terraform (Modules, State Management), AWS CloudFormation.
- Automation & Scripting: Python (Boto3, Pandas), Bash Scripting, FastAPI (Internal Tools).
- DevOps & Containers: Docker, Jenkins, GitHub Actions, Git, Linux (Ubuntu).
- Security & Networking: Security Groups, NACLs, IAM Policies, VPC Endpoints, Load Balancing (ALB/NLB).
- Methodologies: FinOps (Cost Optimization), CI/CD, Agile/Scrum.

Certifications

- AWS Certified Solutions Architect – Associate (SAA-C03) | Amazon Web Services (AWS)
  Issued: Dec 2025 | Validation ID: https://www.credly.com/badges/401bdbe7-4119-41fe-8682-5aac23997884/public_url

Professional Experience

Independent Cloud Engineer (Freelance)
Hyderabad | Oct 2025 – Present

- Designed and maintained modular Terraform architectures to provision multi-tier AWS environments (VPCs, public/private subnets, NAT Gateways).
- Built an internal self-service platform using FastAPI and Boto3 to trigger automated infrastructure and operational workflows, reducing manual Ops effort.
- Developed Python automation to continuously audit AWS security posture, identifying insecure S3 configurations and overly permissive Security Groups.

Software Engineer – L&T Technology Services
Hyderabad | Mar 2022 – Jun 2025

- Containerized legacy Python applications using Docker and deployed them on AWS EC2, later migrating selected workloads to Amazon EKS, improving response latency by ~20%.
- Architected CI/CD pipelines using Jenkins, automating build, test, and deployment workflows and accelerating release cycles by 65%.
- Authored production-grade Terraform modules for provisioning AWS infrastructure (VPC, EC2, S3), reducing manual setup time by 70%.
- Optimized system-level data processing pipelines, resolving memory bottlenecks and reducing CPU load by 20%.

Projects

Secure AWS Infrastructure for Financial Data

- Designed a zero-trust VPC architecture with private subnets, VPC Endpoints, isolating sensitive financial workloads to meet strict compliance standards.
- Deployed containerized Python services on Amazon EKS, configuring HPA, IAM Roles for Service Accounts (IRSA), and AWS Secrets Manager for secure scaling and credential management.
- Automated security checks and infrastructure drift detection using Python and scheduled Terraform plans to identify misconfigurations and unauthorized changes.

Cloud-Native AI Inference & Deployment Platform

- Automated provisioning of AWS infrastructure using Terraform, including VPCs, subnets, Auto Scaling Groups, Application Load Balancers, and RDS.
- Built an internal developer platform using FastAPI and Jenkins to support blue/green deployments and environment resets via API, reducing Ops ticket volume by 40%.
- Implemented self-healing and cost-optimized infrastructure, using ASG-based recovery and Lambda-driven cleanup of orphaned resources, reducing monthly cloud waste by 15%.

Education

- B.Tech in Computer Science and Engineering
  Vignan's University | 2017 – 2022 | CGPA: 7.1