



# Abu Hanifa

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## Profiles

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## Skills

### Cloud Provider

AWS, GCP, DigitalOcean

### IaC

terraform, ansible

### Logging & Monitoring

ELK, Loki, Grafana, Prometheus

### Container Orchestration Tool

Kubernetes, Docker, Helm

### Scripting & Programming

Go, Bash

### Centralise Gateway

kong, traefik

### Ingress Controller

Traefik, Nginx, Voyager

### Networking

TCP/IP, DNS, HTTP, gRPC, firewalls, load balancers

### Security

IPSec Site-to-Site tunneling

### Proxy

Envoy, Nginx, HaProxy

### RDBMS

MySQL, PostgreSQL

### Pub/Sub

Google Pub/Sub, Kafka

## Summary

With nearly 10 years of experience as a Software Engineer, SRE, and DevOps professional, I specialize in building scalable, reliable systems and automating operations. I'm passionate about enforcing strong reliability practices and optimizing cloud infrastructure across platforms like AWS and GCP.

## Experience

### Testrail

Remote

Lead DevOps Engineer

🔗 <https://www.testrail.com/>

- Leading the DevOps team to build and maintain the infrastructure for Testrail's SaaS platform
- Implementing CI/CD pipelines to automate the deployment process
- Monitoring and optimizing system performance and reliability
- Collaborating with cross-functional teams to define and implement best practices
- Ensuring security and compliance across the infrastructure
- Developing and maintaining infrastructure as code using Terraform

### Techetronventures Ltd

Dhaka, Bangladesh

Tech Lead

🔗 <https://techetronventures.com/>

- Build a scalable Trek trading platform
- Design and implement the complete infrastructure
- Create a real-time notification system with authorization
- Integrate multiple communication channels (SMS, email, in-app notifications)
- Implement asynchronous data processing and notifications using Kafka

### Pathao Ltd

Dhaka, Bangladesh

Senior Site Reliability Engineer

🔗 <https://pathao.com/>

- Contributed to the successful transition from a monolithic architecture to a microservices-based system
- Enhanced platform reliability and security
- Implemented standardized metrics and logging across all services
- Developed systematic debugging methodology

### Appscore Ltd

Nov, 2015 - Apr, 2018

Dhak, Bangladesh

🔗 <https://appscore.com/>

## Education

### Mawlana Bhashani Science & Technology University

Computer Science

3.10

2011-2015

Bachelor of Science

<https://mbstu.ac.bd/>

## Awards

### 1st Runner up in inter versity programming contest

Competed with 30+ universities and secured 1st runner up position.

### Pathao Hackathon 1st Runner up

Created a proof of concept for real-time communication using gRPC and pub/sub for a distribution system like Pathao. We wanted to solve issues around how various verticals from Pathao could communicate with end users in real time.

## Projects

### Project Terraform | Pathao Ltd

- Migrate existing Pathao infrastructure to IaC
- Implement changes through CI/CD pipeline
- Provision all instances as modules

terraform, gitlab-ci, terraform-module

### Centralise API gateway | Pathao Ltd

- Use Kong as centralized API gateway
- Introduce Lua plugins to add necessary logic smoothly
- Centralize authentication termination and caching

Lua, kong, api-gateway, centralise-auth-termination

### Centralise Logging & monitoring | Pathao Ltd

- Develop a common library for log and metrics collection and database storage
- Centralize metrics monitoring in Grafana dashboard
- Implement Loki/ELF integration

Go, Loki, Prometheus, Grafana

### Application Standardisation | Pathao Ltd

- Implement CI/CD across the entire Pathao platform
- Integrate security measures including SAST and DAST
- Centralize configuration management

gitlab-ci, ci-cd, consul

### Realtime bi-directional communication | Techetronventures Ltd

- Implement Centrifugo for real-time communication across all clients
- Add authentication proxy for secure access control
- Utilize Redis for scalability to handle high data loads
- Ensure all communications are encrypted end-to-end

centrifugo, gRPC, realtime-communication

### Admin Portal | Techetronventures Ltd

- Implement SSO across the entire admin portal
- Set up LDAP for access control
- Design and implement a comprehensive admin portal for the trek trading platform

sso, gRPC, Go, REST

### Kong Centralise API gateway | Techetronventures Ltd

- Use Go plugins instead of Lua
- Centralize authentication termination
- Expose necessary metrics for Prometheus and Grafana

Go, Kong, Prometheus, grafana