

Muhammad Fahim Feroz

Junior Cloud & DevOps Engineer

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Professional Summary

Junior Cloud and DevOps engineer with hands-on experience building Azure, AWS, Kubernetes, Terraform, CI/CD, and DevSecOps portfolio projects. Designed cloud infrastructure, automated deployments, containerized backend services, added security scanning, and configured observability with Prometheus and Grafana. Comfortable working across Linux environments, Git-based workflows, infrastructure automation, container orchestration, and cloud-native deployment pipelines. Focused on building reliable, repeatable, and secure delivery workflows for junior Cloud, DevOps, and infrastructure engineering roles.

Technical Skills

Cloud Platforms: AWS, Azure, AKS, ACR, VPC, EC2, RDS, S3, DynamoDB, IAM, Systems Manager

DevOps & CI/CD: GitHub Actions, Azure DevOps Pipelines, Git, Bash, Ansible, Docker Compose, CI/CD Automation

Containers & Orchestration: Docker, Kubernetes, kubectl, Helm, Ingress, HPA, Liveness/Readiness Probes, NetworkPolicy

Infrastructure as Code: Terraform, Modular IaC, Remote State, State Locking, Public/Private Subnets, ALB, RDS PostgreSQL

DevSecOps & Quality: Pytest, Bandit, Flake8, Trivy, Docker Image Scanning, Pipeline Validation

Monitoring & Backend: Prometheus, Grafana, FastAPI, PostgreSQL, Redis, Celery, Linux

Technical Projects

Azure AKS DevOps Pipeline

GitHub

Azure, AKS, ACR, Terraform, Ansible, Docker, GitHub Actions, FastAPI, PostgreSQL, Redis, Prometheus, Grafana

- Built an end-to-end Azure DevOps pipeline to provision infrastructure, build Docker images, push to ACR, deploy to AKS, and run smoke tests.
- Automated infrastructure and application delivery using Terraform, GitHub Actions, and Ansible for repeatable AKS deployments.
- Integrated Flake8, Bandit, Pytest, Prometheus, and Grafana to support CI quality checks, security scanning, and deployment observability.

Terraform AWS Infrastructure

GitHub

AWS, Terraform, VPC, Public/Private Subnets, ALB, Private EC2, RDS PostgreSQL, S3, DynamoDB, IAM, Systems Manager

- Created modular Terraform infrastructure for AWS, including VPC, public/private subnets, ALB, private EC2, IAM roles, and RDS PostgreSQL.
- Implemented S3 remote state and DynamoDB locking to support safer collaborative Infrastructure as Code workflows.
- Designed a zero-SSH private architecture using AWS Systems Manager for secure instance access without public SSH exposure.

FastAPI DevSecOps Pipeline

GitHub

FastAPI, PostgreSQL, Redis, Celery, Docker Compose, GitHub Actions, Pytest, Bandit, Flake8, Trivy

- Built a production-style FastAPI backend stack with PostgreSQL, Redis, Celery, Docker Compose, and health-checked services.
- Created a GitHub Actions CI/CD pipeline for automated linting, testing, security checks, container builds, and vulnerability scanning.
- Integrated Pytest, Flake8, Bandit, and Trivy to enforce code quality, SAST checks, and container image security validation.

Kubernetes Application Deployment

GitHub

Kubernetes, Docker, Helm, YAML, Ingress, HPA, Probes, Resource Limits, NetworkPolicy, Trivy

- Deployed a containerized application on Kubernetes using manifests and Helm-based deployment workflows.
- Configured Ingress, HPA, liveness/readiness probes, resource requests and limits, and NetworkPolicy for production-oriented deployment.
- Added GitHub Actions validation and Trivy scanning to improve deployment reliability and pre-release security checks.

Education

COMSATS University Islamabad, Lahore Campus (BSCS)

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