

# ASAD ASHRAF

## Trainee DevOps Engineer

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### 👤 PROFILE

Aspiring DevOps Engineer with a strong foundation in Linux administration and Cloud Infrastructure. Successfully built and deployed a 3-tier web application using **Docker** and **AWS** as part of a personal capstone project. Proficient in automating deployments via **GitHub Actions** and provisioning infrastructure with **Terraform**. AWS Certified Cloud Practitioner holder, eager to apply troubleshooting skills and modern DevOps practices in a junior engineering role.

### 🎓 EDUCATION

|   |                             |
|---|-----------------------------|
| <b>BS Computer Science</b><br>Pak AIMS / Institute of Management Sciences | 02/2022 – Present<br>LHR PK |
| <b>Intermediate of Computer Science</b><br>Aspire Collage Township        | 03/2018 – 08/2021           |

### 🧠 SKILLS

- CI/CD: Azure DevOps, GitHub Actions, GitLab CI, Jenkins (basic)
- Cloud: Microsoft Azure, AWS (fundamentals)
- Linux: User management, services, firewalld, SELinux (basics)
- Containers: Docker, Docker Compose
- Version Control: Git, GitHub
- Kubernetes: Basics, Deployments, Services
- Infrastructure as Code: Terraform (basic)

### 📜 CERTIFICATES

- Docker Certified Associate — Corvit Lahore (2025)
- Microsoft AZ-400 – Designing and Implementing Microsoft DevOps Solutions
- AWS Application Migration Service (AWS-MGN)
- Scaling Cloud-Native Applications with KEDA (LFEL1014)

### Cloud-Native CI/CD Pipeline

- Created a **basic CI/CD pipeline** to automate application build and deployment processes.
- Containerized applications using **Docker** to ensure consistency across environments.
- Deployed and tested containerized workloads on **Kubernetes** for learning and hands-on practice.

### Wanderlust Application Deployment

- Configured and managed a **Jenkins CI/CD pipeline** for automated build and deployment processes.
- Containerized the application using **Docker** and orchestrated multi-service deployment with **Docker Compose**.
- Implemented **version control (Git)** and practiced pipeline automation following DevOps best practices.

### Three-Tier Web Application Deployment

- Built and deployed a **fully containerized three-tier web application** consisting of frontend, backend, and database layers.
- Containerized all services using **Docker** and stored images in **AWS ECR**.
- Deployed the application on **AWS EKS** using Kubernetes **Deployments, Services, and Ingress**.
- Configured **Application Load Balancer (ALB)** to route external traffic to Kubernetes Ingress.
- Implemented **CI/CD automation** workflow from GitHub → Docker → AWS ECR → Kubernetes.
- Gained hands-on experience with **microservices communication, traffic routing, and cloud-native deployment**.
- Explored optional tooling such as **Prometheus & Grafana (monitoring)** and **ArgoCD (GitOps)**.

### AutoFlow – GitHub Actions Dashboard

- Built a developer-friendly web dashboard to manage and monitor **GitHub Actions CI/CD workflows**.
- Implemented **secure GitHub authentication** using Personal Access Tokens (PAT) with repo and workflow scopes.
- Enabled users to **view repositories, discover workflows, and manually trigger workflow\_dispatch pipelines** from the UI.
- Implemented **real-time workflow status and log streaming** using GitHub API polling.
- Added **CI/CD workflow generation** using pre-built YAML templates for faster pipeline setup.
- Designed a **responsive UI** with light/dark mode and GitHub-inspired layout using Tailwind CSS.
- Deployed the application on **Vercel** with zero backend (client-side only architecture).