Marwan Ayman Shawky

DevOps Engineer / Cloud Engineer

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Profile

Motivated and detail-oriented Computer Science graduate passionate about DevOps, CI/CD pipelines, and cloud technologies. Eager to contribute to modern DevOps environments and continuously learn emerging tools.

Technical Skills

DevOps Tools: Docker, Git, GitHub Actions, Jenkins, Kubernetes
Cloud Platforms: AWS, Azure, GCP, Huawei Cloud
Languages: Python, Bash, Go, Java, C
Infrastructure: Nginx , Terraform , Ansible
Databases: SQLite , SQL Server , MariaDB , MySQL
Monitoring: Prometheus , Grafana

Experience

DevOps Trainee — Digital Egypt Pioneers Initiative
Jun 2025 – December 2025

- Undergoing structured training in DevOps, cloud computing, and Linux administration.
- Developing practical projects focusing on automation and cloud-native architectures.

DevOps Intern — Ghaymah Cloud Solutions
Sep 2025 – October 2025

- Working on cloud automation, CI/CD pipelines, and infrastructure provisioning.
- Gaining hands-on experience with Ghaymah Cloud Solutions, Docker, and APIs.
- Assisting in containerized application deployments and monitoring setup.

Projects

GitOps CI/CD Notes Application with ArgoCD.

- Built a full 3-tier notes app deployed on AWS EKS with Terraform, Docker, Helm, ArgoCD and GitHub Actions for a complete GitOps CI/CD pipeline.
- Designed infrastructure-as-code for cluster provisioning, ECR image builds, and EKS deployment — enabling automated deployments and reproducible environments.
- Configured Nginx reverse proxy, Flask REST API, MySQL storage, and Prometheus health/metrics endpoints for monitoring and reliability.

Highly-Available Web App Deployment with Auto Scaling & S3 Backup

- Built a highly available AWS infrastructure using Terraform , including VPC , subnets , security group and bastion host.
- Deployed a scalable web application with Auto Scaling, EC2, and an Application Load Balancer (ALB).
- Automated instance provisioning with user-data to install and configure Nginx.
- Implemented S3 for storage and backups, following Infrastructure as Code (IaC) best practices.

Python Note Web App – Cloud Backup Infrastructure

- Deployed Flask-based web app on AWS EC2 with MariaDB using SQLAlchemy ORM.
- Configured EBS-mounted backups for high data reliability.
- Built robust CRUD backend with automated backup strategies.

Go Notes App – Automated Deployment

- Developed Go-based note management app using SQLite.
- Automated provisioning with Ansible from controller to node.
- Integrated cron jobs for scheduled maintenance tasks.

Education

Bachelor of Computer Science — Helwan University, 2023