

# Marwan Ayman Shawky — DevOps Engineer / Cloud Engineer

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## Profile

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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

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- **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

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### DevOps Trainee

Digital Egypt Pioneers Initiative

Jun 2025 — Dec 2025

Cairo, Egypt (Hybrid)

- 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 — Oct 2025

Saudi Arabia (Remote)

- 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

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### 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

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### Bachelor of Computer Science

Helwan University

Sep 2018 — Jan 2023