

Marwan Ayman Shawky

Cloud & DevOps Engineer

marwanayman.shawky@gmail.com | +20 112 288 9126 | Cairo, Egypt

[GitHub](#) | [LinkedIn](#) | [Portfolio](#)

Summary

Computer Science graduate with hands-on experience in software development, cloud platforms (AWS, GCP, Azure), and DevOps tools like Docker, Kubernetes, Ansible, and Terraform. Skilled in CI/CD, Linux, and infrastructure automation using GitHub Actions. Eager to apply and grow in a DevOps internship focused on scalable, cloud-native systems.

Education

Helwan University, Cairo, Egypt

Sep 2018 – Jan 2023

Bachelor's Degree in Information Systems

GPA: 3.0 / 4.0 | Graduation Project Grade: A+

Relevant Courses: Data Structures, Algorithms, Software Development, Databases, Data Analysis

Professional Development

Ghaymah

Sep 2025 – Present

Professional Development Program — DevOps Engineering Track (*Remote*)

First EMEA Cloud Provider in the region. Skills: CI/CD, Infrastructure as Code (IaC), GitHub Actions, Docker, Kubernetes, Ansible, Terraform, Linux Administration, Cloud Automation

Digital Egypt Pioneers Initiative

Jun 2025 – Present

Professional Training Program — Cloud and DevOps Track (*Hybrid*)

Skills: AWS, Git, Linux, Docker, Kubernetes, Ansible, Terraform

Technical Skills

- **Languages:** Python, Java, C, Go
- **DevOps Tools:** Docker, Kubernetes, Ansible, Terraform, Git, GitHub Actions
- **Cloud Platforms:** AWS, GCP, Azure, Huawei Cloud
- **Databases:** SQL Server, MySQL, MariaDB, SQLite
- **Data Tools:** Power BI, Excel
- **Networking:** CCNA 200-301

Projects

Flask Notes App with Docker, MySQL, and Nginx [GitHub Repo](#)

Built a full-stack note-taking app using **Flask** and **MySQL** with CRUD, search, and migrations via **Alembic**. Containerized with **Docker Compose** (web, db, nginx), integrated **Nginx** reverse proxy, and used **TailwindCSS + AJAX** for UI. Deployed on **AWS EC2 (Amazon Linux)** with persistent storage and added **/health** and **/metrics** endpoints. *Tech Stack: Flask, Python, MySQL, Docker, Nginx, TailwindCSS, Alembic, AWS EC2*

Go Note-Taking App Deployment (DevOps) | [GitHub Repo](#)

Automated deployment of a lightweight **Go-based web app** on **AWS EC2** using **Ansible roles**. Used **SQLite** for storage and mounted an **EBS volume** for automated backups, emphasizing Infrastructure as Code and durability. *Tech Stack: Go, Ansible, AWS EC2, SQLite, EBS*

Cloud-Hosted Note-Taking System | [GitHub Repo](#)

Developed a note-taking platform with **Flask + MariaDB**, deployed on **AWS EC2** with persistent **EBS** storage. Automated database **cron job** backups, reducing recovery time by **80%**. *Tech Stack: Flask, MariaDB, AWS EC2, EBS, Cron*

Certifications

- Skills Boost Arcade Base Camp – Google Cloud Skills Boost (Sep 13, 2025)
- Level 3: Developer Essentials – Google Cloud Skills Boost (Sep 4, 2025)
- Build Infrastructure with Terraform on Google Cloud – Google Cloud Skills Boost (Aug 30, 2025)
- Deploy Kubernetes Applications on Google Cloud – Google Cloud Skills Boost (Aug 27, 2025)
- Level 3: Terraform Essentials – Google Cloud Skills Boost (Aug 10, 2025)
- LFS158: Introduction to Kubernetes – Linux Foundation (May 31, 2025)
- LFS101: Introduction to Linux – Linux Foundation (May 30, 2025)
- LFS151: Introduction to Cloud Infrastructure Technologies – Linux Foundation (May 30, 2025)

Volunteer Experience

Digital Egypt Pioneers Initiative — Group Leader Volunteer

Jun 2025 – Present

- Guided and supported a peer group of 20 DEPI participants, fostering a collaborative learning environment.
- Established and maintained a Google Drive repository, enhancing accessibility of external resources.
- Coordinated online and in-person study sessions to reinforce core Cloud and DevOps concepts.
- Mentored junior participants, helping them overcome project and technical challenges.