Marwan Ayman Shawky

Cloud & DevOps Engineer

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

GitHub | LinkedIn | Hashnode | 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

Digital Egypt Pioneers Initiative   Jun 2025 – Present
Professional Training Program — Cloud and DevOps Track
Skills: AWS, Git, Linux, Docker, Kubernetes, Ansible, Terraform

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

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

Go Note-Taking App Deployment (DevOps) | GitHub Repo
Automated the deployment of a lightweight **Go-based web note app** on **AWS EC2** using **Ansible roles**. Utilized **SQLite** for storage and mounted an **EBS volume** to store automated backups. Focused on infrastructure as code, seamless provisioning, and data durability. *Tech Stack: Go, Ansible, AWS EC2, SQLite, EBS*

Cloud-Hosted Note-Taking System | GitHub Repo
Developed a cloud-hosted note-taking platform using **Flask** and **MariaDB**, deployed on **AWS EC2** with persistent storage via **EBS**. Implemented automated **cron job** backups for the database, improving data resilience and reducing recovery time by **80%**. *Tech Stack: Flask, MariaDB, AWS EC2, EBS, Cron*

Electronics Shop Website (Graduation Project)
Designed and developed a full-stack e-commerce platform as a graduation project, integrating a **modern Angular frontend** with a scalable **.NET backend** and **SQL Server** database. Focused on secure user authentication and data persistence. *Tech Stack: Angular, ASP.NET, Bootstrap, SQL Server*

Linux CLI Tool | GitHub Repo
Built a terminal-based utility in **C** to manage and create **symbolic and hard links** on Linux systems. Reinforced skills in low-level Linux operations and **command-line tools**. *Tech Stack: C, Linux CLI, Ubuntu*

Learning Management System (LMS) | GitHub Repo
Implemented a desktop application to manage student records with a **Java Swing** GUI and a **SQLite** backend. Employed **JDBC** for database interaction and modular code design.
  Tech Stack: Java, Swing, SQLite, JDBC

Football Performance Analysis Dashboard
Analyzed team performance data and built interactive visual dashboards using **Power BI**. Used Excel for data transformation and KPI tracking. *Tech Stack: Power BI, Excel*

2D Side-Scroller Platformer Game (Unity) | GitHub Repo
Designed and built a side-scrolling platformer game using **Unity** with integrated physics, animations, and sound design. Emphasized real-time game logic and object interactions using **C#**. *Tech Stack: Unity, C#*

Certifications

- AWS, GCP, and Azure Cloud Fundamentals – DataCamp

- Huawei Cloud Developer Associate (Tech Essentials & AI) – Huawei

- Docker Fundamentals, Intermediate – KodeKloud, DataCamp

- Introduction to Kubernetes – DataCamp, Linux Foundation

- Introduction to Cloud Native – Linux Foundation

- Linux Fundamentals – Linux Foundation, KodeKloud

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.