# Shehab Mostafa Fahmy

DevOps Engineer | Computer Science Fresh Graduate

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Military Status: Exempted

## SUMMARY

Aspiring DevOps Engineer and Computer Science graduate with hands-on experience from the Digital Egypt Pioneers Initiative. Driven by a passion for continuous learning and improvement. Known for attention to detail, strong commitment to excellence, and effective collaboration. Eager to apply my skills and grow in a dynamic environment.

## EDUCATION

**Ain Shams University** | *Bachelor of Computer Science*                                        *Cairo, EG* | **2020 – 2024**

- Cumulative GPA: **3.52**/4.00 (**B+**)
- Graduation Project Evaluation: **A-**

## EXPERIENCE

**Digital Egypt Pioneers Initiative – DEPI** | *DevOps Trainee*                          **June 2024 – October 2024**

Worked within a 5-person team, gaining experience in infrastructure automation and CI/CD pipelines using common DevOps tools.

## SKILLS

- Programming and Scripting — C, C#, C++, Java, Python, Bash
- Operating Systems and Databases — Linux, Windows Forms, MySQL
- Tools and Technologies — Git, Vagrant, Docker, Kubernetes basics, AWS, Terraform, Jenkins, Ansible, Prometheus basics

## PROJECTS

**TA'AM** | *Graduation Project*

Implemented machine learning models in Python and trained them on **Google Colab** to enhance a mobile app for buying and selling used clothes through the mobile camera, while teammates built the app using **Flutter**, **Firebase**, and **FastAPI**. For more information, visit my GitHub repository.

**LAMP Stack Deployment with IaC and Cloud-Based DNS Automation** | *Infrastructure Automation Practice*

Set up a basic LAMP (Linux, Apache, MySQL, PHP) stack to host a PHP-based webpage with database integration. Used **Vagrant** for local deployment, **Terraform** for AWS infrastructure provisioning, and **AWS Route53** for DNS configuration with a purchased domain.

**Automated Jenkins CI/CD Pipeline for Nexus Repository Deployment on AWS** | *DEPI Pre-final Project*

Automated the installation of Sonatype Nexus repository on an **AWS EC2** instance configured as a **dynamically provisioned Jenkins slave agent**. Used **Ansible** for local playbook execution, **Terraform** for AWS provisioning, and managed pipeline credentials through Jenkins for seamless deployment.

**Automated Multi-Layered AWS Infrastructure with Terraform** | *DEPI Terraform Course*

Deployed a **multi-layered AWS infrastructure** with **Terraform**, including VPC, subnets, ALBs, and EC2 instances, utilizing secure state management in **S3** and **DynamoDB**. Created an **NGINX AMI** from a temporary EC2 instance for backend servers, and an **internal load balancer** and **public proxies** for secure traffic routing. Resources auto-terminate after 10 minutes unless manually stopped.

**Kubernetes CronJob Task** | *DEPI Kubernetes Course*

Set up a CronJob to run a Bash/Python script every 3 minutes, utilizing a **ConfigMap**, **Persistent Volume** (PV), and **Persistent Volume Claim** (PVC) with hostPath for storage.

**DBMShell** | *Shell Scripting Project*

Developed a database management system using **Bash scripting**, allowing users to store, retrieve, and manage data on the hard disk.

## AWARDS

- **3rd Place out of 100+ Teams in the Neural Networks Competition**                          *Ain Shams University* | **2023**
  *Achieved 86% accuracy with an Arabic Sentiment Analysis model using an LSTM Neural Network.*
- **15th Place out of 200+ in the Algorithms Warm-up Competition**                          *Ain Shams University* | **2023**
  *Accelerated processing using multi-threading to calculate cosine similarity between two documents.*
- **34th Team Placement in Programming Problem Solving Contest**                          *Ain Shams University* | **2021**
  *Competed in the Ain Shams FCI Collegiate Programming Contest held at AASTMT Alexandria.*