Shehab Mostafa Fahmy

DevOps Engineer | Computer Science Fresh Graduate

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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

Orange Digital Center and Digital Hub | *DevOps Intern*   **January 2025 – February 2025**

Gained hands-on experience through mentorship, tasks, and a final project on CI/CD, containerization, and infrastructure as code.

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

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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.

CI/CD Pipeline for Seamless Deployment of a Containerized Python Web Application | *ODC Final Project*

Built a CI/CD pipeline that triggers a **Jenkins** build whenever code is pushed to GitHub via a webhook routed through an **Ngrok** tunnel. Jenkins builds a **Docker** image, pushes it to **Docker Hub**, and runs an **Ansible** playbook to deploy the container on two **Vagrant** virtual machines. The process concludes with an **email notification** of the build status.

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 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.

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.