

Amr Mourad Ahmed Mohamed Awad

DevOps Engineer

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PROFESSIONAL SUMMARY

A DevOps Engineer with a solid foundation in Software Engineering from the Faculty of Computers and Artificial Intelligence, Cairo University, expertise lies in cloud infrastructure, containerization, and CI/CD pipelines. Hands-on experience with tools such as Docker, Kubernetes, and OpenShift, combined with proficiency in Python and Bash scripting, enables the implementation of streamlined workflows and reliable systems.

Focused on driving innovation and fostering collaboration ensures the delivery of scalable, efficient, and resilient solutions. Committed to supporting dynamic environments by enhancing operational efficiency and maintaining system stability across diverse teams and projects.

EDUCATION

Cloud DevOps Accelerator 4 months Program, NTI Digital Egypt Youth Initiative (November 2024 – March 2025)

- Completed an intensive training program in Cloud DevOps, Linux, and AWS with hands-on experience in containerization, automation, and infrastructure management.
- Gained proficiency in Red Hat Linux, OpenShift, AWS Cloud services, Terraform, Jenkins, and Ansible.

Faculty of Computers and Artificial Intelligence, Cairo University (2019 – 2023)

- Grade: Very Good.
- Major: Software Engineering.
- Graduation Project: School Choice (A+ grade).
- Relevant Coursework: Object Oriented Programming (OOP), Data Structures, Algorithms, SOLID Principles, Design Patterns, Software Architecture, Software Development Life Cycle (SDLC).

High School Diploma IGCSE, Misr Language Schools (2016 – 2019)

WORK EXPERIENCE

Cloud DevOps Trainee, iVolve Technologies (February 2025 – March 2025)

- Completing tasks in Linux, OpenShift, and AWS using tools like Terraform, Jenkins, and Ansible.

Embedded SW Engineer Internship, Si-Vision, Cairo, Egypt (August 2022 - September 2022)

- Participated in intensive training on OOP concepts tailored for embedded systems.

Oracle DB Administrator Internship, National Bank of Egypt (NBE) – Cairo, Egypt (July 2022 - August 2022)

- Monitored and optimized Oracle DB performance, including web logic server and core banking systems.
- Automated routine database tasks using Bash scripting to enhance operational efficiency.

IT Application Support Internship, Orange Egypt – Giza, Egypt (September 2021 - October 2021)

- Provided technical support, resolved software issues, and collaborated with cross-functional teams.

Skills

Technical/Hard Skills

- Languages:** Python, Java, PHP, JavaScript, SQL.
 - DevOps Tools:** Docker, OpenShift, Ansible, Terraform, Jenkins.
 - Cloud:** Amazon Web Services (AWS).
 - Web Technologies:** Hypertext Markup Language (HTML), Cascading Style Sheets (CSS), Bootstrap, Web Scraping.
- Soft Skills:** Problem Solving skills, Communication skills, Collaboration and Teamwork, Adaptability, Attention to Detail, Self-Learner.
- Language Skills:** Arabic (Native), English (Upper Intermediate).

PROJECTS

School Choice, Web Application

- Developed an intuitive platform enabling parents and students to make informed school selections.
- Technologies: JavaScript, React.js, Nest.js, Python (for web scraping).
- GitHub: Front-end - [Github/School-Choice-Frontend](https://github.com/Amr-Awad/School-Choice-Frontend).
Back-end - [Github/School-Choice-Backend](https://github.com/Amr-Awad/School-Choice-Backend).

iVolve Graduation Project – DevOps Automation Pipeline

- Provisioned AWS infrastructure using **Terraform** and automated server setup (Jenkins, SonarQube, Docker, Java, Git) with **Ansible**.
- Built CI/CD pipelines in **Jenkins** and used **ArgoCD** for GitOps-based Kubernetes deployments.
- Containerized apps with **Docker** and deployed them to **Kubernetes** clusters on AWS EC2 using NGINX as an Ingress Controller.
- Technologies:** Terraform, Ansible, Jenkins, ArgoCD, Docker, Kubernetes, NGINX, AWS EC2, Git, Java, Spring Boot, SonarQube.
- GitHub:** [Github.com/IvolveTraining](https://github.com/Amr-Awad/IvolveTraining).

Serverless Café Website (AWS), Web Application

- Developed a fully serverless café website using AWS services with scalable architecture and secure authentication via Cognito.
- Built event-driven backend with Lambda, DynamoDB, and API Gateway, automated CI/CD pipelines with CodePipeline, and monitored with CloudWatch and X-Ray.
- Technologies: AWS Lambda, API Gateway, DynamoDB, S3, Cognito, CloudFormation, SNS, SQS, CodePipeline, CloudWatch, X-Ray.
- GitHub: [Github/Amr-Awad/AWS-Cafe](https://github.com/Amr-Awad/AWS-Cafe).

Terraform AWS Architectures, AWS Services Configurations

- Developed a full 3 architectures using terraform for AWS services.
- This Terraform configuration, divided into three projects, provisions a highly available and secure AWS infrastructure featuring VPCs with public and private subnets, NAT gateways, bastion hosts, database instances, Application Load Balancers (ALBs), and Auto Scaling Groups.
- It includes multi-AZ deployment with NGINX on public EC2 instances acting as reverse proxies, forwarding requests to private EC2 instances running Apache.
- GitHub: [Github.com/Amr-Awad/NTI-Terraform](https://github.com/Amr-Awad/NTI-Terraform).

CERTIFICATIONS

- **ISTQB Certified Tester Foundation Level**, ISTQB (September 2022).
- **AWS Certified Cloud Practitioner**, AWS (March 2025).

COURSES

- **Red Hat System Administration I**, RedHat (February 2022 – June 2022).
- **Red Hat Application Development Java EE**, RedHat (September 2022 – January 2023).
- **Red Hat Containers and OpenShift**, RedHat (February 2023 – June 2023).