Mohamed Ahmed Farouk

Cloud DevOps Engineer

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in linkedin.com/in/mohamed-elweza ○ github.com/MohamedElweza 🛡 Exempted

Cloud & DevOps Engineer with hands-on experience designing, automating, and scaling cloud infrastructure for high-availability applications. Skilled in **Docker, Kubernetes, Terraform, Jenkins, AWS,** and monitoring solutions. Proven track record of **reducing deployment times by up to 65%**, enhancing system uptime to **99.95%**, and optimizing cloud costs. Adept at **Infrastructure as Code (IaC)**, **CI/CD pipelines**, **microservices deployment**, and **infrastructure security**. Passionate about delivering resilient, scalable, and cost-efficient solutions in fast-paced, collaborative environments.

EDUCATION

Bachelor of Electronics & Communication Engineering Aug 2020 – Jul 2025
Mansoura University
Cumulative GPA: 3.33 / 4.0 (Equivalent to 83.25%) – *With Honors*
Graduation Project : STEM-Based Educational Hub for Practical Learning.
- **Description:** Built a STEM platform bridging academic theory with real-world application through hands-on learning and problem-solving activities
- **Grade:** Excellent.
- Designed AWS-based cloud infrastructure ensuring scalability and security.
- Developed CI/CD pipelines for automated deployment.
- Built mobile app in Flutter, enabling real-world STEM learning for students.

EXPERIENCE

DevOps & Cloud Projects (Independent / Side Projects) Jul 2024 – Mar 2025
- **Automating Multi-Tier Java Web Application Deployment** Remote
  - Built and containerized a Java app using Docker & Compose, reducing setup time **by 50%**.
  - Migrated infrastructure to AWS (**EC2, RDS, ElastiCache, SQS, ALB**) and deployed via Kubernetes with Terraform for consistent environments.
  - Implemented CI/CD using Jenkins & ArgoCD, integrated Prometheus & Grafana for **30% performance improvement**.

- **Deploying a Highly Available Web Application on AWS**
  - Automated provisioning with Terraform, cutting setup time **by 65%**.
  - Configured **ASG & ALB** for **99.95% uptime**, deployed secure VPC with NAT and subnets, reducing attack surface **by 45%**.
  - Implemented S3 backup strategy, achieving **30% cost savings**; enforced IAM least-privilege security policies.

- **Full-Stack Weather App with Kubernetes Orchestration**
  - Deployed production-simulated local K8s cluster using Kind.
  - Configured StatefulSet MySQL with Kubernetes Secrets & init Jobs.
  - Secured ingress with **NGINX + TLS**, automated DNS & cluster setup, improving deployment consistency.

CERTIFICATES

AWS Certified Solutions Architect – Associate — Credly 🔗

Certified Kubernetes Administrator (CKA) — KodeKloud 🔗

Amazon Cloud Summer Training Program - (120 Hours)

Cisco CCNA Summer Training Program – 120 Hours

TECHNICAL SKILLS

Cloud & DevOps
- **Containers & Orchestration:** Docker, Kubernetes, Helm.
- **CI/CD Tools:** Jenkins, GitHub Actions, ArgoCD.
- **Infrastructure as Code (IaC):** Terraform, Ansible.
- **Monitoring & Logging:** Prometheus, Grafana.
- **Cloud Platforms:** AWS (EC2, S3, RDS, IAM, ALB, ASG, VPC, SQS).

Linux Administration
- Linux Administration (Admin 1 & 2).

Version Control & Collaboration
- Git, GitHub.

Programming & Scripting
- **Languages:** Dart, Java, Python, C++.
- **Scripting:** Bash Shell, Python.
- Object-Oriented Programming (**OOP**).
- Clean Code & Clean Architecture.

Networking
- Cisco Certified Network Associate (**CCNA**).

EXTRACURRICULAR ACTIVITIES

Programming Instructor for Kids · Jul 2023 – Sep 2024 · Mansoura
Delivered programming fundamentals through interactive games, increasing student engagement by 40%.

IEEE Mansoura Student Branch · Dec 2022 – May 2024 · Mansoura
Organized major tech events (Tech Elixir, Vectories v2), managing logistics for 300+ attendees.

IEEE Mansoura Computer Society Chapter · Apr 2022 – May 2024 · Mansoura
Progressed from Volunteer to Supervisor; led 3-session Cloud & DevOps workshop (AWS, Terraform, Jenkins, GitHub Actions).

CAT Reloaded · Apr 2022 – Apr 2023 · Mansoura
Participated in networking and cybersecurity knowledge exchange.

LANGUAGES

English — Proficient

Arabic — Native/Bilingual