# Khaled Hawil
## DevOps & Cloud Engineer

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**Military Service:** Completed | **LinkedIn**: https://linkedin.com/in/khaledhawil | **GitHub**: https://github.com/khaledhawil

## Summary

DevOps Engineer with hands-on experience in cloud infrastructure, automation, and CI/CD pipeline optimization. Proven expertise in designing high-availability architectures using AWS, Kubernetes, and Infrastructure as Code. Experienced in implementing GitOps, container orchestration, and security best practices across environments. Passionate about driving operational excellence through automation and continuous improvement initiatives.

## Professional Experience

**System Administrator**                                         Jul 2025 – Present
**AlKhwarizmi.ai**                                           6th of October City, Giza

- **Infrastructure:** Designed and deployed high-availability infrastructure across Linux and Windows environments
- **Database Operations:** Configured and maintained MongoDB replica sets and Redis clusters for data redundancy
- **Load Balancing & Failover:** Executed HAProxy with Keepalived for seamless load distribution and failover
- **Web Server Optimization:** Managed and optimized Apache, Nginx, and IIS web servers, improving response times
- **Cross-functional Collaboration:** Partnered with development teams to streamline deployment and release cycles

## Projects

**WeatherApp – CI/CD with GitHub Actions & ArgoCD**                         Jul 2025
- **CI Pipeline:** Built robust CI pipeline using GitHub Actions with automated testing and security scanning
- **GitOps Deployment:** Applied GitOps-based continuous deployment using ArgoCD for application management
- **Microservices Architecture:** Deployed containerized microservices (Go, Python, Node.js) on Kubernetes cluster

**ITI Final Project – Full DevOps on AWS (MERN Stack)**                     Jun 2025
- **Infrastructure as Code:** Provisioned complete AWS infrastructure using Terraform and configured with Ansible
- **DevOps Pipeline**: Integrated Jenkins, ArgoCD, Docker, and Trivy for comprehensive CI/CD with security scanning
- **Monitoring & Observability:** Enforced CloudWatch monitoring and alerting for proactive system management

**Islamic App – Full DevOps Deployment (React/Flask)**                     Jun 2025
- **Container Orchestration:** Deployed React and Flask with PostgreSQL using Docker, Kubernetes, and Jenkins CI/CD
- **GitOps Implementation:** Systematized deployment workflows with ArgoCD, and Trivy security scanning

## Internship

**AWS re/Start Intensive Training Program**                        Mar 2025 – Jun 2025
Information Technology Institute (ITI)                                        Hybrid

- Completed a 12-week intensive cloud bootcamp, gaining hands-on experience in AWS, Linux, and DevOps
- Delivered multiple real-world deployment projects with automation and cloud security in production environments

## Technical Skills

- **Operating Systems:** Linux administration 1,2 (Ubuntu, CentOS)
- **Cloud Platforms:** AWS, DigitalOcean
- **Containerization:** Docker, Kubernetes
- **CI/CD Tools:** Jenkins, GitHub Actions, ArgoCd
- **Infrastructure as Code:** Terraform, Ansible, CloudFormation
- **Monitoring & Security:** Prometheus, CloudWatch, HAProxy, Keepalived, Trivy
- **Version Control:** Git, GitHub, GitLab
- **Soft Skills:** Quick to Learn New Technologies, Problem-Solving & Critical Thinking, Collaboration & Teamwork

## Education

Bachelor's Degree in Computer Science                              Sep 2019 – Jul 2023
*Higher Institute of Management and Information Technology (HIMIT)*              **Egypt**

## Certifications

- AWS Certified Cloud Practitioner (CLF-C02)                                Jul 2025