

Hassan Maher Hassan

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SUMMARY

Cloud and DevOps Engineer with a B.Sc. in Electronics and Communications Engineering and hands-on experience designing and automating cloud-native infrastructure and CI/CD pipelines. Proficient in AWS, Docker, Kubernetes, Jenkins, Terraform, and GitOps workflows, with a strong foundation in Linux, networking, and system administration. Focused on building scalable, automated, and reliable cloud infrastructure.

TECHNICAL SKILLS

DevOps & CI/CD: Docker, Kubernetes (EKS), Jenkins, ArgoCD, Terraform, Ansible, Git, GitHub

Cloud & Virtualization: AWS (EC2, S3, EKS, ELB, CloudFront), VMware

Monitoring & Observability: Prometheus, Grafana

Networking: CCNA Routing & Switching, OSPF, VLANs, NAT, ACLs, VPNs, Nginx Ingress

Operating Systems: Linux (Administration & Troubleshooting), Windows Server

Programming & Scripting: Python, Bash

CERTIFICATIONS

- AWS Certified Solutions Architect – Associate — Amazon Web Services (AWS) | 2026
- AWS Certified Cloud Practitioner — Amazon Web Services (AWS) | 2026

PROJECTS

Smart Farm Net (Graduation Project) | Cloud-Native IoT & AI Platform

Tech Stack: AWS, Kubernetes, Terraform, Docker, Jenkins, ArgoCD, Python (Flask), PostgreSQL, Flutter

- DevOps & Infrastructure: Provisioned production-ready AWS infrastructure (VPC, EKS, RDS) from scratch using Terraform (IaC).
- CI/CD & GitOps: Engineered an end-to-end CI/CD pipeline using Jenkins for automated Docker image builds and ArgoCD for continuous GitOps-based deployments on Kubernetes.
- Microservices & High Availability: Containerized and deployed the platform as microservices with multiple replicas per service, supporting high availability and zero-downtime deployments.
- AI & IoT Integration: Integrated real-time IoT sensor data processing and an AI-powered plant disease detection service, with secure traffic routing through Nginx Ingress and SSL/TLS via AWS ACM.

Intelligent Traffic System (DEPI Graduation Project) | End-to-End GitOps Pipeline

Tech Stack: AWS (EKS, EC2, ELB), Kubernetes, Docker, Jenkins, ArgoCD, Prometheus, Grafana, Nginx Ingress, Python (Flask)

- Built and deployed an end-to-end GitOps-based CI/CD pipeline for an intelligent traffic monitoring platform.
- Automated Docker image builds with Jenkins and Kubernetes deployments with ArgoCD.
- Developed a real-time dashboard integrated with a backend data collector for traffic data visualization.
- Configured Nginx Ingress, AWS Load Balancers, Prometheus, and Grafana for traffic routing and system observability.

Scalable & Secure Enterprise Network

Tech Stack: Routing & Switching, Network Security, ACLs, Cisco Packet Tracer

- Designed and simulated a scalable enterprise network architecture with high availability.
- Configured routing and switching protocols including VLANs, ACLs, and traffic management policies.
- Implemented network security controls using ACLs and structured network isolation techniques.

EXPERIENCE & TRAINING

DevOps & Cloud Computing Trainee — Digital Egypt Pioneers Initiative (DEPI) | Dec 2025 – Jul 2026

Hands-on training in AWS cloud infrastructure, DevOps methodologies, CI/CD automation, containerization, Kubernetes, Jenkins, Docker, and Terraform.

Network Infrastructure Trainee — National Telecommunication Institute (NTI) | Jul 2025

Hands-on training in enterprise networking, routing, switching, troubleshooting, and network security.

Telecom Field Training Intern — Telecom Egypt (WE) | Jul 2022 – Sep 2022

Assisted with telecom infrastructure maintenance and troubleshooting of fiber-optic and residential voice and data services.

EDUCATION

B.Sc. in Electronics and Communications Engineering (ECE) | 2026

Zagazig University – Faculty of Engineering

Technical Secondary School Diploma (5-Year System) – Programming Department | 2021

Graduation Grade: 97.5%

LANGUAGES

- Arabic: Native
- English: Professional Working Proficiency