

MAHMOUD AHMED SOLIMAN

Cloud and DevOps Engineer

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Military Status: Completed as a reserved officer
(May 2022 – March 2024)

PROFILE

Enthusiastic Junior DevOps and Cloud Engineer with a solid foundation in AWS, Linux, and infrastructure management. Passionate about DevOps culture, automation, and continuous delivery. Quick learner and reliable team player with strong communication and problem-solving skills, committed to building scalable systems and driving continuous improvement.

EDUCATION

Oct 2024 – present	9-Month Professional Diploma, Information Technology Institute (ITI). Track: Cloud Architecture
Sep 2017 – June 2021	BSc. In Computer and Information Science, Faculty of Computer and Information Science, Mansoura University. Accumulative Grade: Very Good (81.09%), Rank: 10 th Graduation Project: Surveillance System

CERTIFICATES

- AWS Certified Cloud Practitioner
- Red Hat Certified System Administrator (RHCSA)
- Huawei Certified Cloud DevOps Associate (HCCDA - Tech Essentials)

WORK EXPERIENCE

Apr 2024 – Oct 2024	FSIT (Fujitsu Services for IT Services) , System Engineer <ul style="list-style-type: none">• Implemented security best practices to ensure compliance across all network devices and systems.• Installed, configured, and maintained Fujitsu servers and desktop hardware, ensuring optimal performance.
Sep 2021 – Apr 2022	PRO Solutions , Technical Support Engineer <ul style="list-style-type: none">• Managed multiple support cases, ensuring high-resolution rates within target timelines.• Resolved 10-25 Tier 3 technical issues daily on PCs, HP & Dell Servers, configured FortiGate firewalls, and Kaspersky antivirus.

PROJECTS

To-Do App 3-Tier DevOps Project

- Built and deployed a 3-tier Node.js To-Do app on Amazon EKS using Kubernetes manifest files, with infrastructure provisioned via Terraform.
- Set up CI/CD using GitHub Actions and ArgoCD, integrating Trivy and Gitleaks for security scanning, with Prometheus, Grafana, and OpenLens monitoring.

End-to-End DevOps Implementation with Azure DevOps, AWS EKS, Terraform, and Ansible

- Deployed a 3-tier Feedback app on AWS EKS using Azure DevOps pipelines, with infrastructure provisioned via Terraform and configured using Ansible. Integrated Trivy and Gitleaks for DevSecOps security and secrets scanning.

Deployed a Multi-Service E-Commerce Application on Kubernetes clusters

- Built GitHub Actions CI pipelines integrating Gitleaks and Trivy for automated secret detection and vulnerability scanning, alongside unit testing and Go and Ruby application builds.
- Provisioned AWS infrastructure with Terraform and implemented GitOps continuous delivery using ArgoCD to synchronize Kubernetes manifests.

CI/CD Pipeline for Solar System Application Deployment on EKS

- Built a CI/CD pipeline using GitHub Actions to test, scan (with Trivy & Gitleaks), build, and deploy the Solar System Application, a Node.js app, on AWS EKS. Provisioned infrastructure using Terraform.

Streamlining Flask Deployment with Docker, Ansible, and AWS

- Containerized a Flask web application using Docker, then automated its deployment on AWS EC2 instances with Ansible.

Aswan Airport Surveillance System

- Configuration software for 7 Fujitsu servers and 32 PCs to support airport surveillance.

TECHNICAL SKILLS

Containerization & Orchestration: Containerized applications with **Docker** and deployed them on **Kubernetes** clusters. Used **Helm** charts for service templating and deployment.

CI/CD Implementation: Designed and implemented CI/CD pipelines for containerized applications using **Azure DevOps** and **GitHub Actions**.

GitOps & Continuous Delivery: Implemented GitOps workflows using **ArgoCD** to automate Kubernetes manifest synchronization and application deployment.

Cloud Infrastructure: Hands-on experience building and managing complex cloud setups on **AWS**. Also familiar with **Azure**.

Monitoring & Logging: Configured **Prometheus** and **Grafana** for real-time monitoring of cloud resources and Kubernetes workloads.

Infrastructure as Code (IaC): Automated infrastructure deployment using **Terraform** and **Ansible**.

Scripting & Automation: Wrote **Bash scripts** to automate routine tasks.

Networking & Virtualization: Solid understanding of **VMware vSphere**, **NSX**, **CCNA**, and **ISM**.

LANGUAGES

• Arabic: Native

• English: Very Good