

# Mohamed Esmael

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🌐 [mohamedesmael10](#)

## PROFILE

Motivated and detail-oriented System Administrator & DevOps Engineer with hands-on experience in cloud computing, automation, and CI/CD pipelines. Proficient in Infrastructure as Code tools like Terraform, Ansible, and Docker, excelling in managing both Linux and Windows environments. My internships at ITI, NTI, DEPI, and CCNA have refined my expertise in server management, containerization, and network configuration.

## INTERNSHIPS

### Information Technology Institute (ITI) – Aswan, Egypt

**Intensive Code Camp (ICC): System Administration** (Nov 2024 – Apr 2025)

A Systems Administration Specialist adept at deploying and maintaining Linux and Windows systems. Proficient with Ansible, Docker, Terraform, AWS, Azure, Python & Bash scripting, CI/CD pipelines, and container orchestration; certified in RHCSA.

#### Projects:

- Windows Server Infrastructure 🌐
- Memory Card Game 🌐
- Python-Based System Administration Tool 🌐
- Serverless API with AWS Lambda & DynamoDB 🌐

### National Telecommunication Institute (NTI) – Port Said, Egypt

**Huawei Egyptian Talents Academy (ETA): Cloud Computing** (Sep 2024 – Nov 2024)

Acquired essential skills in Huawei Cloud services through the HCIA certification, covering cloud fundamentals, server technologies, and virtualization in preparation for the H13-511 exam.

#### Certificates:

- NTI Certificate 🌟
- Huawei Certificate 🌟

**Digital Egypt Youth (DEY): CCNA** (Jul 2024 – Oct 2024)

Provided a comprehensive introduction to networking, covering core concepts like IPv4/IPv6, routing, security, and advanced topics such as VPNs and QoS.

#### Certificates:

- CCNA: Introduction to Networks 🌟
- CCNA: Switching, Routing, and Wireless Essentials 🌟
- CCNA: Enterprise Networking, Security, and Automation 🌟
- NTI Certificate 🌟

### Digital Egypt Pioneers Initiative (DEPI) – Remote

**DevOps Engineer Internship** (Apr 2024 – Nov 2024)

Gained hands-on DevOps training with Linux, Ansible, Docker, Jenkins, Kubernetes, AWS, and Terraform.

#### Projects:

- Multi-Tier Cloud Infrastructure 🌐
- Comprehensive DevOps Pipeline 🌐
- Event-Driven AWS Architecture 🌐
- CLI-Based Database Management System 🌐

#### Certificates:

- DevOps Engineer Internship Completion Program 🌟
- Certificate of Technical Graduation 🌟
- Business English Track Certificate 🌟

## EDUCATION

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### **Bachelor of Engineering (BE) in Electrical, Electronics and Communications Engineering**

Higher Institute of Engineering and Technology in New Damietta (Jan 2018 – June 2023)

**GPA:** Very Good (3.09/4.0)

**Graduation Project:** Self-Driving Car (Autonomous Car using Machine Learning Algorithms)

*Graded Excellent*

## CERTIFICATIONS

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**Red Hat Certified System Administrator (RHCSA)** (Mar 2025) – Red Hat 🌟

**Huawei Certified Cloud Developer Associate (HCCDA)** (Jan 2025) – Huawei 🌟

## COURSES

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- **AWS Academy Microservices and CI/CD Pipeline (Feb 2025)** – AWS Academy 🌟
- **AWS Academy Cloud Web Application Builder (Feb 2025)** – AWS Academy 🌟
- **AWS Academy Cloud Security Builder (Feb 2025)** – AWS Academy 🌟
- **AWS Academy Cloud Operations (Feb 2025)** – AWS Academy 🌟
- **AWS Academy Cloud Foundations (Feb 2025)** – AWS Academy 🌟
- **Linux Administration | (RH124) | Red Hat Training (Jan 2025)** – Red Hat 🌟
- **Linux Administration || (RH134) | Red Hat Training (Jan 2025)** – Red Hat 🌟
- **Red Hat System Administration - I Certification (Sep 2024)** – MaharaTech ITIMOoca 🌟
- **Ubuntu Linux Essentials (Sep 2024)** – MaharaTech ITIMOoca 🌟
- **Database Fundamentals (Jul 2024)** – MaharaTech ITIMOoca 🌟
- **NumPy, SciPy, Matplotlib & Pandas A-Z: Machine Learning (Jul 2024)** – Udemy 🌟
- **HTML5 & CSS3 Complete Course: Build Websites like a Pro (Jun 2024)** – Udemy 🌟
- **The Git & GitHub Bootcamp: The Complete-Practical Guide (Jun 2024)** – Udemy 🌟
- **Python for Data Science and Machine Learning (May 2024)** – Udemy 🌟
- **Problem Solving (Basic) & (Intermediate) (Feb 2024)** – HackerRank 🌟 🌟
- **The Complete Self-Driving Car Course - Applied Deep Learning (Sep 2023)** – Udemy 🌟
- **JavaScript OOP: Mastering Modern Object-Oriented Programming (Jun 2023)** – Udemy 🌟
- **Problem Solving with C Programming Language (Jun 2023)** – Udemy 🌟
- **Mobile Communication Networks Evolution (Dec 2021)** – Telecom Egypt 🌟

## TECHNICAL SKILLS

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**Networking & Security:** Routing, Switching, Wireless, TCP/IP, DNS, DHCP, VPN, Firewall Configuration, SELinux, LAN Switching, Load Balancing

**Virtualization & Cloud:** KVM, VMware vSphere, VirtualBox, AWS, Huawei Cloud, Microsoft Azure, Cloud Formation, Cloud Networking, Cloud Platforms

**System Administration:** Linux (Ubuntu, CentOS, Red Hat, Debian), Windows Server, LDAP, Active Directory, Filesystem (LVM, RAID, NFS, tmpfs, overlays)

**DevOps & Automation:** Ansible, Docker, Podman, Buildah, Kubernetes, Terraform, CloudFormation, CI/CD Pipelines, Git, GitHub, Jenkins, Microservices Architecture, IoT

**Programming & Scripting:** Bash, PowerShell (Basic), Python, C, C#, Shell Scripting

**Database:** MySQL, Database Management Systems (DBMS)

## SOFT SKILLS

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|--------------------------|-------------------|---------------------|----------------------|
| - Adaptability           | - Communication   | - Critical Thinking | - Time Management    |
| - Emotional Intelligence | - Problem-Solving | - Self-Motivation   | - Team Collaboration |

## AWARDS

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**Competition Achievement Award, IC-SIT 2023 (Jul 2023):** Awarded by IEEE Egypt AP-S/MTT-S Joint Chapter and SC-GRS Technological Company for outstanding projects for the Graduate Project – Self-Driving Car.

**Second Place Winner, Science Clubs Forum for Higher Education Institutes (Mar 2021):** Recognized across the Republic for academic and innovative excellence for the NDETI Satellite project.

For more details on these projects, please check my [LinkedIn Profile](#).

## LANGUAGE

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**Arabic:** Native

**English:** Professional Working Proficiency

## PERSONAL INFORMATION

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**Date of Birth:** 15 September 2000

**Nationality:** Egyptian

**Military Status:** Exempted