

# Ebrahim Gamal Abdelmawgoud Ali

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## Professional Summary

Electrical and Communications Engineering graduate with hands-on experience in Network Engineering and DevOps through professional training at NTI, ITI, and DEPI. Skilled in designing and configuring LAN networks, implementing IP addressing and subnetting schemes, and applying routing protocols. Experienced in Linux system administration, Docker containerization, Git version control, and AWS cloud services (EC2, VPC, IAM). Built and simulated network topologies using Cisco Packet Tracer and deployed containerized applications in cloud environments. Strong analytical, troubleshooting, and automation skills. Seeking an entry-level position in Network Engineering, DevOps, or IT Infrastructure to contribute to building scalable, secure, and reliable systems.

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## Education

**2021-2026:** Higher Technological Institute, 10th of Ramadan – Egypt

B.Sc. in Communications & Electronics Engineering | GPA: 3.41 / 4.0

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## Technical Experience

### DevOps Trainee

#### Digital Egypt Pioneers Initiative (DEPI)

(December 2025 – Present)

- Administered Linux environment managing 20+ users, permissions, and file systems
- Created 5+ Bash scripts to automate system administration tasks
- Built and deployed 3 containerized applications using Docker
- Launched and configured AWS EC2 instances with VPC and IAM policies
- Applied CI/CD concepts by simulating 2 automated deployment pipelines
- Used Git for version control and collaborative workflow management

#### Information Technology Institute (ITI)

(June 2025 – August 2025)

- Gained hands-on experience with IT infrastructure, Linux basics, and networking fundamentals
- Performed practical labs and technical exercises to strengthen problem-solving and troubleshooting skills
- Supported system configuration and basic administration tasks

### Linux Trainee

(May 2025–July 2025)

#### Linux System Administration (Self-Learning – YouTube & Mahara Tech | Linux Admin 1)

- Administered Linux systems including user management, permissions, file systems, and LVM.
- Managed system services, logs, performance monitoring, and troubleshooting.
- Configured network settings and applied routing fundamentals.
- Developed basic Bash scripts for task automation and system management.

### Network Engineering Trainee

#### National Telecommunication Institute (NTI)

(June 2024 – July 2024)

- Designed and configured LAN network including 3 routers and 6 switches serving 40+ hosts
  - Implemented IPv4 addressing and subnetting for multiple departments
  - Applied static routing and RIP protocol across routers
  - Built and tested 5+ complete network topologies using Cisco Packet Tracer
  - Diagnosed and resolved 10+ connectivity and configuration issues
  - Improved network segmentation using VLAN configuration
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## Projects

- **Network Design & Simulation Project**

- Designed and simulated company network infrastructure using Cisco Packet Tracer
- Configured routers, switches, and 30+ end devices
- Implemented subnetting scheme and VLAN segmentation
- Applied static and dynamic routing protocols
- Verified connectivity and optimized network performance

- **Linux & DevOps Practice Project**

- Performed hands-on practice in Linux system administration and DevOps fundamentals.
- Managed Linux systems including users, groups, file systems, and LVM
- Developed 5+ Bash scripts for task automation
- Practiced Git branching, merging, and version control workflows
- Simulated CI/CD workflow concepts and container deployment using Docker

- **Traffic Light Control System (C)**

- Designed and implemented a Traffic Light Control System using C.
- Developed control logic for traffic signal timing.
- Simulated system behavior using Proteus.
- Tested different traffic timing scenarios to ensure correct signal sequencing.
- Applied concepts of embedded systems and logic control.

- **Cloud-Native Patient Web Interface Deployment (DevOps Project)**

- Built an end-to-end CI/CD pipeline using GitHub Actions to automate Docker image build and deployment to Docker Hub.
- Containerized a Node.js application and provisioned AWS infrastructure (VPC, EC2, S3, EBS, EFS, IAM) using Terraform.
- Deployed and managed the application on a Kubernetes cluster (Minikube on EC2) with scalable deployments and services.
- Applied Infrastructure as Code (IaC) and cloud-native practices to ensure automation, scalability, and reliability.

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## Technical Skills

- **Networking:**  
LAN, WAN, VLAN, Subnetting, Routing, TCP/IP, Network Troubleshooting
- **DevOps and Cloud:**  
Linux, Docker, Git, CI/CD, AWS (EC2, VPC, IAM)
- **Tools:**  
Cisco Packet Tracer, MATLAB, Simulink, Proteus, LTspice
- **SOFT SKILLS:**  
Problem Solving | Teamwork | Communication | Time Management | Team Collaboration | Analytical Thinking | Communication | Troubleshooting
- **Operating Systems & System Administration:**  
Linux Administration (1), logs, User/Group management & permissions, File systems, LVM, storage troubleshooting, Bash scripting & automation

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## Languages

- Languages: Arabic (Native), English (Very Good)