

# Ahmed Mohamed Ebaid

## Security Engineer

Bachelor of Science in Information Technology

6th of October, Giza, Egypt

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GitHub Profile

LinkedIn Profile

## Objective

Motivated Security Engineer with a focus on **Cloud Architecture** and **Secure Computing**. Possesses comprehensive knowledge of **Virtualization**, **Storage Area Networks (SAN)**, and **DDoS mitigation**, backed by practical internship experience. Eager to utilize skills in **Python scripting**, **Linux administration**, and **Network Security** to design and maintain scalable, secure, and redundant infrastructure systems.

## Education

### • Bachelor of Science in Information Technology (Networks, Security and Governance)

Oct 2022 – July 2026

Zewail City of Science and Technology

Giza, Egypt

## Work Experience

### • Security Intern

Jul 2025 – Aug 2025

Commercial International Bank (CIB)

Egypt

- Gained exposure to banking IT systems and security practices.
- Assisted in cybersecurity tasks and network management.

### • Network Intern

Jul 2024 – Jan 2025

Zewail City IT Department

Giza, Egypt

- Gained hands-on experience in network administration and maintenance.
- Assisted in vulnerability assessment and security implementations.
- Participated in network design and installation projects.

## Volunteer Experience

### • Junior Teaching Assistant

Sep 2024 – Dec 2024

Network Installation & Maintenance Course, Zewail City of Science and Technology

Giza, Egypt

- Assisted students with network installation and maintenance concepts.
- Supported course instructors with lab sessions and demonstrations.

### • Member of Parliament (IT Major Representative)

Sep 2023 – Sep 2024

Zewail City Student Parliament

Giza, Egypt

- Represented IT students in university governance.
- Participated in decision-making processes affecting student life.

## Technical Skills and Interests

**Networking:** Network Design, Installation, Maintenance, Security, Administration, CCNA, CCNP

**Security:** Vulnerability Assessment, Encryption, Cybersecurity, IT Governance, Incident Response, Security Frameworks

**Cloud:** Cloud Computing Architecture, Secure Computing, AWS, Microsoft 365/Azure

**Programming Languages:** Python, SQL, HTML/CSS, Bash/Scripting Languages

**Databases:** Microsoft SQL Server, Data Structures

**Other Skills:** Computer Hardware Troubleshooting, Web Development, IoT, Robotics

**Areas of Interest:** Network Security, Cloud Computing, Cybersecurity

**Soft Skills:** Critical Thinking, Teamwork, Teaching, Written Communication, Adaptability, Quick Learner, Problem Solving

## Projects

- **AURA: Hybrid Cloud University Registration System (Capstone)** Sep 2025 – Jun 2026  
GitHub Link  
*Azure, On-Premises, React.js, Express.js, PostgreSQL*
  - Architected a **Hybrid Cloud** solution integrating local servers with **Azure Virtual Machines** to handle peak traffic loads.
  - Designed an auto-scaling infrastructure using **Load Balancers** to activate cloud resources only during registration spikes.
  - Implemented secure **Role-Based Access Control (RBAC)** and **OTP verification** to protect student and faculty data.
- **Automated Network Backup & Disaster Recovery Framework** Dec 2025  
GitHub Link  
*Bash Scripting, OpenSSL (AES-256), Cron, EVE-NG*
  - Developed a **Zero-Touch** automated backup system achieving a 24-hour **Recovery Point Objective (RPO)**.
  - Implemented **AES-256 encryption** for data at rest and secured transfers via SSH using **2048-bit RSA keys**.
  - Engineered network resilience using **Link Aggregation (Bonding)** and validated **148 Mbps throughput** with zero packet loss.
- **Enterprise Data Center Network Design** Dec 2025  
GitHub Link  
*Cisco Packet Tracer, OSPF, VLANs, SNMP, DHCP*
  - Designed a three-tier hierarchical network infrastructure supporting **600+ users** across five departments.
  - Configured **OSPF dynamic routing** and **Dual-ISP redundancy** to ensure high availability and fault tolerance.
  - Implemented **VLSM** for efficient IP allocation and deployed **SNMPv2c** for proactive centralized network monitoring.
- **Secure Communication Protocol Implementation** May 2025  
GitHub Link  
*Python, PyCryptodome, RSA (2048-bit), AES-GCM*
  - Developed a secure messaging application using **RSA-2048** for key exchange and **AES-GCM** for authenticated encryption.
  - Implemented **Digital Signatures (RSA-PSS)** to guarantee message authenticity and non-repudiation.
  - Engineered session key derivation using **HKDF-SHA256**, ensuring forward secrecy and robust cryptographic security.

## Certifications

- **Information Security Analyst (Infrastructure and Security)** 2026  
*Digital Egyptian Pioneers Initiative (DEPI) - MCIT*
  - **Core Competencies:** Trained in encrypting data at rest and in transit, advising on security system implementation, and investigating intrusion detection alerts.
  - **Technical Modules:** SOC Essential Concepts, Vulnerability Management, Cyber Threats (IoCs & Attack Methodology), SIEM (Incident Detection), and Logging.
  - **Operations & Response:** Incident Response & Management, Security Operations, Reporting & Communication, and Prompt Engineering.
  - **Capstone Project:** Completed a comprehensive project applying security analysis and management principles.
- **Google Cybersecurity Professional Certificate** 2023  
*Coursera*
  - Connect and Protect: Networks and Network Security
  - Assets, Threats, and Vulnerabilities
  - Automate Cybersecurity Tasks with Python
  - Play It Safe: Manage Security Risks
  - Sound the Alarm: Detection and Response
  - Tools of the Trade: Linux and SQL
  - Foundations of Cybersecurity