

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

Azure, On-Premises, React.js, Express.js, PostgreSQL

[GitHub Link](#)

- 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

Bash Scripting, OpenSSL (AES-256), Cron, EVE-NG

[GitHub Link](#)

- 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

Cisco Packet Tracer, OSPF, VLANs, SNMP, DHCP

[GitHub Link](#)

- 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

Python, PyCryptodome, RSA (2048-bit), AES-GCM

[GitHub Link](#)

- 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