

# Lina Abboud

ICT Engineering Student  
ENIT

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GitHub Profile  
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## Objective

ICT Engineering student specializing in **Telecommunications**, passionate about **cybersecurity**, **networking**, and **cloud computing**. Seeking a **End-of-studies internship (PFE)** to apply skills in network configuration, cloud infrastructure, and vulnerability assessment.

## Education

- |   |                     |
|---|---------------------|
| • <b>National Engineering School of Tunis, ICT Engineering Student</b>            | Sep 2023 - Present  |
| Relevant Coursework: Network Protocols and Security, Cloud Computing Fundamentals | Current             |
| • <b>Higher School of Science and Technology of Hammam Sousse</b>                 | Sep 2021 - Jun 2023 |
| Preparatory Diploma   | Completed           |
| • <b>Mahmoud El Messadi Secondary School, Baccalaureate</b>                       | Jul 2017 - Jul 2021 |
|   | Completed           |

## Certifications

- Cisco Certified Network Associate (CCNA) – Cisco
- Certified Network Security Practitioner – The SecOps Group
- AWS Concepts – DataCamp
- Containerization & Virtualization – DataCamp
- Introduction to Cybersecurity – Cisco
- Understanding Cloud Computing – DataCamp
- Cyber Security for SMBs – EC-Council

## Technical Skills

**Network Security:** Cisco CCNA, Firewalls, IDS/IPS, VPNs, Wireshark, Nmap

**Cloud Computing:** AWS (EC2, S3, Lambda), Virtualization, Containerization (Docker)

**Programming:** Python, C, C++, Java, Bash

**Networking:** TCP/IP, VLANs, STP, RSTP, Cisco Packet Tracer

**Tools:** Linux, Git, Docker, Metasploit

**Languages:** Arabic (Native), French (Fluent), English (Fluent), German (Basic)

## Projects

- |   |                     |
|---|---------------------|
| • <b>Federated Learning for Intrusion Detection System</b> End of Year Project  | Oct 2024 - may 2025 |
| – Designed a privacy-preserving federated learning framework using Flower and TensorFlow for network intrusion detection. |                     |
| – Containerized system with Docker.   |                     |
| – Implemented secure client-server communication using gRPC, enhancing system scalability.                                |                     |
| • <b>AWS Cloud-Based Intrusion Detection System</b> Cloud Security Project  | Jan 2025 - Mar 2025 |
| – Deployed a cloud-native IDS using AWS services for real-time threat detection.  |                     |
| – Implemented automated response workflows with AWS Step Functions to contain identified threats.                         |                     |
| • <b>Poly-Clinic Database Management System</b> Oracle Database Academic Project  | Feb 2025            |
| – Designed and implemented a <b>Oracle-based database</b> for polyclinic management, handling 1K+ patient records.        |                     |

- Developed **PL/SQL procedures** for appointment scheduling, billing automation, and inventory tracking.
- Received **17/20** for exceptional documentation and real-world applicability.

•**Network Security Analysis** Academic Project, ENIT

*Jan 2024 - May 2024*

- Configured a network topology using Cisco Packet Tracer, implementing VLANs and RSTP to prevent loops.
- Conducted vulnerability scans with Nmap and Wireshark, identifying and mitigating potential security threats.

•**Reinforcement Learning Applications** End of Year Project

*Oct 2023 - Apr 2024*

- Developed an autonomous Snake game AI using Q-learning with PyTorch.
- Compared RL algorithms (SARSA, Deep Q-Learning) for performance in dynamic environments.
- Explored RL applications in network optimization, focusing on adaptive routing protocols.

## Positions of Responsibility

•**Media Manager** IEEE CS Chapter

*Feb 2024 - Feb 2025*

- Coordinated digital content strategies for computer science events, collaborating with technical teams.

•**Media Manager** INJEZ

*Mar 2024 - Jun 2024*

- Managed secure content delivery for event websites, ensuring platform uptime and accessibility.
- Developed multimedia content to explain technical concepts, enhancing audience engagement.

•**VIS-A-VIS Team Manager** TUNED

*Jun 2024 - Oct 2024*

- Led a team of 7 in event logistics, streamlining communication to meet technical deadlines.
- Resolved network connectivity issues during event setup, ensuring seamless operations.