

Lina ABBoud

ICT Engineer • Cybersecurity & AI

📍 Tunis, Tunisia

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PROFILE

Motivated and **reliable** individual with strong skills in **cybersecurity** and **AI**. Gained over **3 years of experience** through academic programs, developing solid expertise in **system security** and **secure network architecture**, effectively connecting theory to practical implementation. Recognized for being **creative**, **decisive**, and **adaptable**, with a strong sense of **responsibility** and a results-driven mindset. Eager to apply technical expertise and problem-solving abilities to contribute to **innovative** and **secure** solutions.

EDUCATION

National School of Engineers of Tunis	2023 - Present
Information and Communication Technology Engineering Degree - Telecommunications & Cybersecurity	Tunis
ESST Hammam Sousse	2021 - 2023
Preparatory Cycle in Engineering Sciences – MPSI	Sousse

PROFESSIONAL EXPERIENCE

Information Security Research Intern	Jul - Sep 2025
Zitouna Bank - Network and Security Department	Tunis
<ul style="list-style-type: none"><li>Designed a honeypot-based fraud data collection system using <b>T-Pot on AWS EC2</b>, capturing real-world attack traces.</li><li>Enhanced datasets with <b>GAN-based augmentation</b>, simulating adversarial scenarios for anomaly detection.</li><li>Proposed a novel <b>federated learning framework</b> for Tunisian banks to securely share cyber threat intelligence.</li></ul>	
Computer Vision Intern	Jul - Aug 2024
SDSNT - IT Department	Kairouan
<ul style="list-style-type: none"><li>Developed a <b>real-time YOLOv8-based safety system</b> to detect unconscious individuals for healthcare services.</li><li>Optimized models for <b>lightweight IoT/edge deployment</b>, balancing accuracy and latency.</li></ul>	

ACADAMIC PROJECTS

Federated Learning for Intrusion Detection System	Oct 2024 - May 2025
End of Year Research Project (PFA)	
Built a containerized <b>Federated IDS</b> using <b>Flower</b> , <b>TensorFlow Federated (TFF)</b> , and <b>Docker</b> . Implemented <b>aggregation algorithms (FedAvg, FedProx)</b> across simulated IoT institutions. Integrated <b>Differential Privacy</b> , ensuring GDPR compliance. Achieved <b>98.7% recall</b> on attacks.	
Cloud-Native IDS on AWS	Jan - Mar 2025
Cloud Security Project	
Designed a scalable <b>AWS-based IDS</b> (EC2, Lambda, Step Functions). Integrated log analysis and anomaly detection pipelines.	
Network Simulation with eNSP and Packet Tracer	2023 - 2025
Academic Projects	
Configured VLANs, OSPF, and firewalls in enterprise networks. Simulated <b>MAC protocols (CSMA, TDMA, FDMA)</b> to study link-layer efficiency and <b>security challenges in 5G</b> .	

TECHNICAL SKILLS

<b>Cybersecurity:</b> IDS/IPS, Malware Detection, Threat Intelligence, Network Traffic Analysis, Security Compliance
<b>AI/ML:</b> Federated Learning, Aggregation Algorithms (FedAvg, FedProx), GANs, Differential Privacy, NLP basics, DL basics
<b>Cloud &amp; Edge:</b> AWS (EC2, Lambda, Security Groups), Docker, Secure Cloud Architecture, Elastic Stack (Kibana, Elasticsearch)
<b>Telecom/Networking:</b> 5G Security, Link-Layer Protocols (CSMA, TDMA, FDMA), OSPF, VLANs, Firewalls, Secure Protocols
<b>Programming:</b> Python (advanced), C/C++, Java, Bash, LaTeX <b>Tools:</b> Git, Linux, Metasploit, Oracle, Eclipse, Matlab

CERTIFICATIONS

Certified Network Security Practitioner – SecOps Group
Cybersecurity Job Simulation – Forage (MasterCard)
Rapid Application Development with Large Language Models (LLMs) – NVIDIA
Fundamentals of Deep Learning – NVIDIA
AWS Concepts – DataCamp
Containerization & Virtualization – DataCamp
Linux & Unix Systems - Udemy

EXTRACURRICULAR ACTIVITIES

Webmaster	2023 – 2025
IEEE Computer Society	Tunis
<ul style="list-style-type: none"><li>Strengthened public speaking, teamwork, and leadership skills through the coordination of events and workshops.</li></ul>	
VIS-À-VIS Team Leader	Oct 2024
TUNED	Tunis
<ul style="list-style-type: none"><li>Led a team of 7 members in planning and executing event logistics and technical operations.</li></ul>	

LANGUAGES

• <b>Arabic:</b> Native	• <b>French:</b> Fluent	• <b>English:</b> Fluent	• <b>German:</b> Basic
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