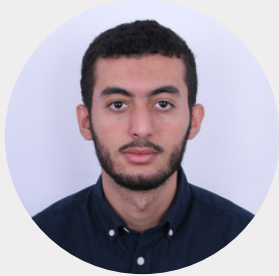


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15 august 2001



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EDUCATION

Master's Degree in Cryptology and Cybersecurity

Sep 2023 - Present

Faculty of Science and Technology Al Hoceima

Bachelor's Degree in Mathematics and Computer Science

Sep 2019 - Jun 2022

Faculty of Science and Technology Al Hoceima

Baccalaureate of Science in Physics and Chemistry

Sep 2018 - Jun 2019

2 octobre 1955 Aknoul High School

PROFESSIONAL EXPERIENCES

Bachelor end of studies internship at RADEETA, TAZA

Development of a Desktop Application for Electronic Mail Management

- used **Visual Studio** for the user interface
- Implemented backend functionalities using **C#**, enabling the handling of email processing, storage and retrieval operations
- used **MySQL** as a database management system

PERSONAL PROJECTS

Developing a Desktop Application for handling JSON Web Tokens (JWT)

- Integrated a JWT library into the application's backend using **C++**, enabling the generation and validation of JWTs. Supported hash functions (HS256, HS384, HS512), leveraging **OpenSSL** for cryptographic operations
- Designed a user-friendly interface using QT framework

Setting up a Site-to-Site VPN in GNS3

- Configured routers and established a secure VPN tunnel between two remote networks in **GNS3**
- Implemented IP addressing, NAT translations and static routing.
- Analyzed the network traffic with **Wireshark**

Malicious URLs Detection using Machine Learning

- Implemented machine learning algorithms to classify URLs as benign or malicious
- Integrated the model into a Web-Application using **Flask** for the backend and **HTML/CSS/JS** for the frontend.

SKILLS & TECHNOLOGYS

- **Programming languages** : Python - C++ - JAVA - SQL - HTML/CSS/JavaScript - MATLAB - Shell
- **Databases** : MySQL - Oracle
- **Operating Systems** : Windows - Linux
- **Machine and Deep learning** : Pandas - NumPy - Matplotlib - Scikit-learn - TensorFlow (Keras)
- **Networking** : Routing -TCP/IP - DHCP - DNS - HTTP/HTTPS - SSH
- **Security Technologies** : Wireshark - Firewalls - VPNs - IDS/IPS (Snort)
- **Virtualization and Network Simulation Tools** : GNS3 - Packet Tracer - VMware - VirtualBox
- **Cryptography** : Symmetric and Asymmetric Encryption - PKI - ECC - Hash Functions

CERTIFICATIONS

- Network Security by CISCO (Coursera)
- Career Essentials in Cybersecurity by Microsoft and LinkedIn

LANGUAGES

- Arabic (Native)
- English (Advanced)
- French (Intermediate)