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EDUCATION

Master's Degree in Cryptology and Computer Security

Sep 2023 - Present

Faculty of Sciences and Techniques Al-Hoceima

Bachelor's Degree in Mathematics and Computer Science

Sep 2019 - Jun 2022

Faculty of Sciences and Techniques Al-Hoceima

Baccalaureate of Sciences in Physics

Sep 2018 - Jun 2019

2 october 1955 Aknoul High School

PROFESSIONAL EXPERIENCES

Bachelor's end of studies internship at RADEETA, TAZA

Apr 2022 - Jun 2022

Development of a Desktop Application for Electronic Mail Management

- Used **Visual Studio** to create a user interface and **C#** for backend functionalities, enabling email processing, storage, and retrieval
- Used **MySQL** MySQL as the database management system to support email data operations

ACADEMIC PROJECTS

Web Application Security Testing

- Created custom scripts to identify and exploit web app vulnerabilities (SQL injection, XSS, ...)
- Automated fuzzing to assess robustness and recommend mitigations

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

Secure Database Backup Automation :

- Developed a **MySQL** backup solution with automated scripts that create encrypted files using AES and GPG
- Implemented a secure restore procedure

Setting up a Site-to-Site VPN in GNS3

- Configured routers to establish a secure Site-to-Site VPN tunnel between two remote networks in GNS3, implementing IP addressing, NAT translations, and static routing
- Analyzed the network traffic with **Wireshark** for monitoring and troubleshooting

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

- Built a **C++** backend to enable JWTs generation and validation, leveraging **OpenSSL** for cryptographic support with hash functions
- Designed a user-friendly interface using **QT framework**

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** : VirtualBox - VMware - Packet Tracer - GNS3
- **Cryptography** : Symmetric and Asymmetric Encryption - PKI - ECC - Hash Functions

LANGUAGES

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

CERTIFICATIONS

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