

# Youssef Daouayry



Passionate and motivated cybersecurity enthusiast, currently a second-year Master's student specializing in cybersecurity and cryptography. Strong grasp of networks, system security, and cryptographic techniques. Completed multiple hands-on projects in web security, intrusion detection, and security automation. Actively seeking to apply and expand these skills in a professional security environment.



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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

**Software Developer Intern (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** as the database management system to support email data operations

## PROJECTS

**Security Log Analysis Using Splunk** : Set up Splunk on Ubuntu Server to collect and analyze system logs. Built dashboards and alerts to detect failed logins, port scans, and brute-force attempts

**Web Application Security Testing** : Developed custom scripts to identify and exploit web app vulnerabilities and utilized OWASP ZAP for automated vulnerability scanning and assessment of web applications.

**Secure Database Backup Automation** : Developed a MySQL backup solution with automated scripts that create encrypted files using AES and GPG and implemented a secure restore procedure

**Malicious URLs Detection using Machine Learning** : Implemented machine learning algorithms to classify URLs as benign or malicious, and integrated the model into a Web-Application

**Application of artificial intelligence for intrusion detection** : Research focused on integrating AI techniques for detecting and preventing cyberattacks. Included the setup of IDS tools and analysis of network traffic patterns.

**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

**Developing a Desktop Application for handling JSON Web Tokens (JWT)** : Développement en C++/Qt d'une application pour créer et valider des tokens JWT, avec cryptographie assurée par OpenSSL.

## SKILLS

**Log Analysis** : Analysing security logs and identifying anomalies

**Networking** : Understanding TCP/IP, DNS, DHCP and VPNs

**Threat Detection** : Identifying potential threats using open-source tools (e.g., Wireshark, VirusTotal)

**Operating Systems**: Proficiency in Windows and Linux

**Programming languages** : Python - C++ - JAVA - SQL - HTML/CSS/JavaScript - MATLAB

**Databases** : MySQL - Oracle

**Machine learning and Deep learning** : Pandas - NumPy - Matplotlib - Scikit-learn - TensorFlow (Keras)

## LANGUAGES

**Arabic** (Native)

**English** (Advanced)

**French** (Intermediate)