Youssef Daouayry

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📍 Ajdir Taza, Morocco   📅 15 august 2001

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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 :** Developed custom scripts to identify and exploit web app vulnerabilities and utilized OWASP ZAP for automated vulnerability scanning and assessment of web applications.
- **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
- **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
- **Text-CAPTCHA Breaking Using Deep Learning :** Used segmentation to process CAPTCHA challenges into binary image data for character extraction, and trained neural networks to classify characters, enhancing CAPTCHA-solving accuracy and efficiency.
- **Visual Cryptography for Images :** Processed images (binary, grayscale, and colored) in **MATLAB**, and applied visual cryptography techniques to encrypt and decrypt images.
- **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) :** 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
- **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) - Burp Suite - Metasploit
- **Virtualization and Network Simulation Tools :** VirtualBox - VMware - Packet Tracer - GNS3 - Docker
- **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