



OUSSAMA AHJLI

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PROFILE

Cybersecurity Engineer

National School of Artificial Intelligence and Data Science

Expected Graduation: 2026

Taroudant, Morocco

Meticulous 4th-year engineer, specializing in cybersecurity with deep expertise in penetration testing, threat detection and prevention, and vulnerability analysis. Proficient in recognized cybersecurity frameworks (OWASP, NIST, ISO 27001), intrusion detection systems (IDS/IPS), and emerging technologies like blockchain security and machine learning for behavioral threat analysis.

EDUCATION

Engineering Degree | *Cybersecurity and Digital Trust*

National School of Artificial Intelligence and Data Science

Sep. 2023 – Present

Taroudant, Morocco

Bachelor of Science | *Specialization: Applied Mathematics for Engineering Sciences*

Faculty of Sciences and Technology

Sep. 2023 – Jan 2024

Marrakech, Morocco

DEUG in Applied Mathematics in Finance

Multidisciplinary Faculty

Sep. 2021 – June 2023

Agadir, Morocco

PROFESSIONAL EXPERIENCE

Cybersecurity Engineer (AI Agent Development)

3D Smart Factory – Internship

Mohammedia, Morocco (Remote)

- Design, development and deployment of AI-powered intelligent agents to enhance security operations by automating threat detection, incident response and vulnerability management.
- Development of AI agents analyzing logs, network traffic and endpoint activity to detect anomalies, malware, phishing and intrusion attempts in real-time.
- Implementation of pipelines to collect, normalize and process security telemetry from multiple sources (SIEM, IDS/IPS, EDR, cloud services).

Cybersecurity Auditor

National Airports Office – Internship

Essaouira, Morocco (Hybrid)

- Conducted comprehensive assessments of data center security posture by evaluating technical and physical controls.
- Identified vulnerabilities in infrastructure components (servers, networks, storage) and verified compliance with ISO 27001 and NIST security standards.
- Designed security architecture and implemented network security for critical airport infrastructures.

IT Security Engineer and NextJs Developer

AriMayi – Internship

Paris, France (Remote)

- Design, development and security of Next.js-based web applications for patient data management, laboratory results tracking and appointment scheduling.
- Combination of front-end engineering expertise with robust cybersecurity practices to ensure compliance with healthcare data protection regulations (HIPAA, GDPR).
- Implementation of advanced security controls and secure development practices in healthcare environment.

PROJECTS

Malware Detection Pipeline

Python, Machine Learning, Deep Learning, YARA

- Development of an automated malware detection pipeline using machine learning algorithms and static/dynamic analysis to identify and classify threats with high accuracy.

AI Agent for Security Enhancement

DL, Python, Wazuh, ELK, Automation

- Development of autonomous intelligent agents for proactive security enhancement, automating incident response, threat orchestration and dynamic adaptation of security policies based on behavioral analysis.

IoT Intrusion Detection and Prevention System

Machine Learning, AI, Blockchain, Python

- Development of an intelligent IoT security system combining ML/AI algorithms with blockchain technology for real-time threat detection and prevention.

Advanced Phishing Detection System

NLP, TensorFlow, Python, Feature Engineering

- Design of an intelligent phishing detection system combining natural language processing and URL analysis to identify phishing attempts in real-time with minimal false positive rate.

Secure Movie File Protection System

OWASP MASVS, Cryptography, Node.js

- Building a secure blockchain-based file protection system for cinematic content with encryption, digital rights management and tamper-proof storage.

Infrastructure as Code Automation

Ansible, DevOps, YAML, Linux

- Automation of infrastructure provisioning and configuration management using Ansible playbooks, reducing deployment time and ensuring consistency across environments.

SKILLS

Languages: English (Intermediate), French (B2), Arabic (Native)

Programming: JavaScript (React, React Native, Next.js, Node.js), TypeScript, Python, Java, SQL, Shell Scripts, YAML

Cybersecurity Frameworks: OWASP, NIST, ISO 27001, MITRE ATT&CK, CIS Controls

Security Tools and Technologies: SIEM/SOAR, EDR, XDR, IDS/IPS, Nmap

DevOps and Infrastructure: Docker, Jenkins, Ansible, CI/CD Pipelines

Monitoring and Logging: ELK Stack, Splunk

HONORS AND AWARDS

Founder and President of DataSecure Club

Establishing a club focused on cybersecurity awareness and practices

IT Club Moderator

Participation in discussions and activities to promote IT skills and knowledge among students