M. Amokrane Abdelmalek

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I'm a Master 2 Networks student looking for a 6-month internship starting in February 2025. Passionate about web application security, I specialize in vulnerability research and code analysis. My aim is to actively contribute to the protection of IT systems by putting my technical skills into practice.

EDUCATION

Master Degree
Sorbonne Université - Sciences et Ingénierie - Paris
2024 - 2025
Specialization : Networking
Graduation year : 2025

Computer Science Engineering Degree
École nationale Supérieure d'Informatique (ESI)- Alger
2019 - 2024
Specialization : Computer Systems Engineering
Graduation year : 2024

Master Degree
École nationale Supérieure d'Informatique (ESI)- Alger
2022 - 2024
Specialization : Computer Systems Engineering
Graduation year : 2024

EMPLOYMENT HISTORY

HackerOne, YesWeHack & Huntr — Bug bounty hunter
June 2023 – present

- Discovered and reported numerous vulnerabilities, including critical ones, to known companies such as Visa and VFS Global, which let me gain a lot of experience with real world products.
- Assignment of the numerous CVEs: CVE-2023-6568, CVE-2023-6778, CVE-2024-0243, etc.

Red Fox Labs, Dublin — *Junior Penetration Tester*
September 2021 - March 2022

- Performed penetration testing on commercial websites, whether it was a black, gray, or white box.
- Interacted with actual products, experiment with their features, and apply the security principles learned.

Code Labs Academy, Malta — *Content Creator*
August 2021 - January 2022

- Prepared content for the cyber security bootcamp and learned how to redact technical content.

EXPERIENCE

Research Intern at ÉTS Montréal
September 2023 - June 2024

- Identify vulnerabilities specific to cloud-native infrastructures, explore intrusion detection mechanisms, and develop automated solutions to respond rapidly to detected security incidents, while integrating the concept of self-healing to ensure proactive resilience against potential threats.

Smart web log file analysis system using Machine Learning
August 2022 - September 2022

- Design and development of a log file analysis system using supervised machine learning in order to better detect attacks.
- Passed by all the steps of dataset parsing, feature extraction, testing and choosing ML algorithm until visualization of the results.

CTF player (Capture The Flag competitions)
March 2020 - Present

- CTF player with noreply team (worldwide rank: 20th-April 2024). Participated in national and international CTFs.
- Solving challenges at root-me, and rooting Boxes at HackTheBox.

TITLES

1st place au UMassCTF 2024 – *University of Massachusetts Amherst* **Avec NoL3ak**
April, 2024

1st place in CSAW MENA Finals 2022 – *NYU of Abu Dhabi* **with ShellSec**
November, 2022

TECHNICAL SKILLS

Programing Languages:
Python, Bash scripting, JavaScript, C, Java.

Data structures and Databases:
*SQL, Firebase, NoSQL, JSON, XML.

Web Development:
Django, Flask, FastAPI, Epress.Js, ReactJS.

Deployment and Integration:
Docker, Docker-compose, Kubernetes.

Cloud:
Google Cloud, Azure, Digitalocean, AWS.

Web application security

Cryptography

Linear Algebra and Probabilities

Networks

Git & Version Control

SOFT SKILLS

Organizational Skills

Critical Thinking

Time Management

Teamwork and Collaboration

Problem Solving

Attention to detail

Simplicity and Consistency

Written and Verbal Communication

VOLUNTEER EXPERIENCE

Development department co-manager at Google Developers Group Algiers
2021-2022

CTF events organizer and challenges maker for Shellmates Club *events.*

Workshops trainer: Introduction to Cryptography, Introduction to CTFs, Discord API and deployment.

Open source contributor

LANGUAGES

English (fluent)

French (fluent)

Arabic (native)