M. Amokrane Abdelmalek

https://mokrane.me/
mamokrane.abdelmalek@gmail.com
in/m0kr4n3
github.com/m0kr4n3

Computer Science Engineer, Security and web development enthusiast. Highly motivated individual with great organizational skills and always excited to learn.

EMPLOYMENT HISTORY

HackerOne & 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 following CVEs: CVE-2023-6568, CVE-2023-6778, CVE-2024-0243.

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.

Car tracker and anti theft system : web and mobile application
March 2021 - June 2021

- Worked on with a team on a school project which is a mobile application with a web interface for car location and detects if the car is stolen when the anti theft system is enabled.
- Technologies used: Kotlin, ReactJS, Mapbox and firebase.

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.

EDUCATION

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

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)