ABDEL-MALIK FOFANA

CYBERSECURITY ENGINEER , SPECIALIZING IN NETWORKS AND EMBEDDED SYSTEMS

23 Years

INFORMATION

📞 +33603093206

✉ abdel-malik_fofana@hotmail.com

🏠 Paris, France

🔗 https://www.linkedin.com/in/abdel-malik/

🚗 International driving licence

🇫🇷 French nationality

🌐 All my link (web site , htb ...) :
https://unit.link/abdel-malik

LANGUAGES:

English and French: Bilingual
Spanish: Intermediate
Russian: Beginner
Can also read Greek and Arabic

SKILLS:

Programming languages: Python (+ Django), Bash, C / C++, C#, SQL, PHP, HTML, CSS, JavaScript, SPL, LC-3 Assembly, Java, OCaml, R

Embedded systems: TPM ,STM32, ESP 32, eMMC, Unity (unit testing), CMock, urshin ,CubeMX, platformio,

Network : Cisco Packet Tracer , GNS3 Wireshark , Server (web, dhcp , DNS, SMTP etc...) , SDN , aws , proxy ,

Blue team: firewall pfsense , snort, iptable , dmz , splunk , SIEM , ids ips

Virtualization : VMware, Docker, Traefik Reverse proxy ,Virtualbox , kubernetes , minikube , Grafana , kiali, Asterisk , Tails

Red team: Kali Linux , privilege escalation , gobuster , NMAP, Aircrack-ng Metasploit, Burp Suite , flipper zero, sql injection , Phishing , Ddos, openvas , nessus, Arp/Dns spoofing

Forensic : Autopsy , Volatility, Autoruns ,maltego

Reverse engineering: Ghidra, ida-free , Deobfuscator , apktool , ghex

Encryption: Openssl (Aes, 3DES , RSA ...), john , hashcat, pgp , homomorphic encryption

Other: Linux (Ubuntu , kali), Unix , github git, Unity 3D, OWASP , RGPD, Mooc ANSSI & CNIL , QTdesigner , Blender , photoshop , Latex

QUALITIES

Autonomous, self-taught, curious, and adapts quickly.

INTERESTS:

Suits and ties, IT, bodybuilding, and MMA / Thai boxing / Sambo / Brazilian jiu-jitsu

EXPERIENCES:

- **Embedded Systems Cybersecurity Engineer**
  Inria – Versaille (92) | 09/2024 – 10/2025 1 year
  Signed Defense Secret Non-Disclosure Agreement,

- **Freelance IT**
  Freelancer -> ZEROCC – Remote work | 05/2024 – 09/2024
  Application, website, database, Unity 2D video games, etc....

- **Systems Engineer / DevOps.**
  Animath – Paris (75) | 05/2023 – 08/2023
  Security (PKI & Certificate Authority) Let's Encrypt and Traefik (HTTPS), setting up reverse proxy (Traefik), Docker container management, Linux system administration, web development (HTML, JavaScript, PHP, Django), PostgreSQL database management, server configuration, automation (backup).

- **Internship: C# Unity 3D Developer**
  IRT Railenium – Saint denis (93) | 05/2022 – 09/2022
  Internship: Design of a train simulator with real train coordinates, automation of the generation of real existing train lines with a realistic rendering, for machine learning

EDUCATION:

- **Master's: Computer Science (Work-Study) - Cybersecurity | 2023–2025**
  Université Paris Cité (Paris V Descartes)
  - 17.5/20 en python pour le hacking , 17/20 en datascience , 18/20 en programmation web (docker , kubernetes) & **CCNA SECURITY**

- **Master 1: Computer Science - Networks and Autonomous Systems | 2022–23**
  Université Paris Cité (Paris V Descartes)
  - Honors: 18/20 in Cryptography and Network Security

- **Bachelor's: Computer Science | 2019 – 2022**
  Université Sorbonne Paris Nord
  - With honors

- **Scientific Baccalaureate: Physics and Chemistry | 2018**
  Lycée Paul Robert

CERTIFICATIONS:

- **Cisco Certified Network Associate Security (CCNA SECURITY)**

- **Cisco Networking Academy: Network Security**

- **CEH Preparation master courses**

HACKATHON:

- **European Cybercup 2024 :** Forensic, web, steganography, log analysis, detection, and reverse engineering of malware...
  https://european-cybercup.com/presentation/

- **CTF OTERIA CYBER CUP:** 13th out of 25 Maritime Theme: OSINT, Forensics, Networks, Brute Force, Client/Server Web Attacks, Steganography, Software Radio, etc...

PROJECTS:

- **Network Architecture and Open Source Software:** Router, VOIP, dhcp, NAT, server: (WEB ,TFTP ,POSTFIX , DNS...), OSPF,RIP V2, ssh , VLAN et DMZ , TCP/IP, LAN , PGP
  https://github.com/CatharsisCoding/Reseau-Entreprise

- **Red team :** Reconnaissance (Nmap, Gobuster, Phishing...), exploit research (Metasploit, CVE...), reverse shell (Netcat, msfconsole...), payload encoding, privilege escalation... (Root Me, Hack The Box, TryHackMe)

- **Blue team:** ids/ips with pfsense , snort & GNS3 1st link , DDoS protection ACL , SSH hardening , BLUE TEAM firewall ddos defense with iptable 2nd link

- **Flipper zero:** ESP32 Deauth attack on wpa2, Camera jamming, iPhone crash/bluetooth DDOS, NFC duplication, car key and credit card cloning, etc...

- **Comparison of Homomorphic Encryption and Benchmarking:** CONCRETE , HELIB , PALISSADE (OPENFHE) , SEAL , TFHE , click here for the github

- **Python Hardening & Attack :** PySide6, Qt Designer, automatic iptables firewall rules & system updates, file permissions and security, password attacks on PDF, ZIP, FTP servers, Telnet, SSH, MySQL, Scapy packet forging, ARP Spoofing , SNMP hacking , Metasploitable + bonus: automatic solver for math questions on the web and CAPTCHA link git here

- **Machine Learning:** Prediction of car trajectories for autonomous driving (Python/TensorFlow), prediction of electricity consumption in the city, COVID-19, classification of cats & dogs, landscape recognition, etc...
  https://github.com/CatharsisCoding/Machine-learning