Jean-Charles Merle

Student in Cryptology and Computer Security

Final year Master's student in Cryptology and Computer Security at the University of Bordeaux, looking for a **4 to 6 month** end-of-studies internship in cybersecurity.

Contact

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- 📞 +33 6 29 07 13 00
- 🔗 Portfolio : jcmerle.github.io
- 🐙 github.com/jcmerle
- 💼 jcmerle
- 🌐 French
- 🚗 Driving license (B)

Skills

Programming Languages:
C, Python, Bash, Java, HTML, Sage, Assembly x86-64

Tools:
- Windows, Linux, Kali
- Wireshark, Tcpdump, Nmap
- BurpSuite, Metasploit, GDB, Ghidra
- Gobuster, Searchsploit, JohnTheRipper, Hydra, Hashcat, Bash
- Git, Docker, LaTeX
- Office suite

Languages: French (native), English (bilingual), German (basic)

Certificates

CyberOps Associate: obtained in "Computer Security" at Inha University

DevNet Associate: obtained in "Software Engineering" at Inha University

Academic Projects

Fuzzing of the TCP/IP stack in libslirp in user-mode

◇ Improvement and implementation of **fuzzing** tests in C targeting **TCP and ICMP** protocols on the open-source library libslirp (used in QEMU) under the tutelage of Mister Samuel Thibault, with **Wireshark**, **tcpdump** and **LLVM libFuzzer**

Solver and generator of Sudokus in C

◇ Implementation of a Sudoku solver and generator in **C** with a command-line interface, debugging with **Valgrind** and **GDB**, and project management via **Makefile**

Personal Projects

Experience in ethical hacking on online platforms and CTFs

◇ Regular practice on platforms such as **root-me.org** (top 2800), **TryHackMe** (top 1%) and **HackTheBox**, participated in multiple **CTFs**
Profile name: **lovetdlc**

Home Server

◇ Installation and configuration of a personal server with **Nginx**, a file hosting service, Bitwarden, and various other services, all containerized with **Docker** and managed via **Portainer**

Education

Master in Cryptology and Computer Security   2023–now
University of Bordeaux, France

◇ Master 2 : OS Security, Network Security, SmartCards, Cryptanalysis, Software Verification (OCaml)
◇ Master 1 : Software Security, Network and Protocols, OOP, Data Analysis and Classification, Cryptology, Formal Algebra (Sage), Arithmetic

Bachelor of Computer Science, International Course   2022–2023
Inha University, South Korea

◇ Exchange year in South Korea as part of the International Course of the University of Bordeaux
◇ Computer Security, Software Engineering, Database, OS, System Programming

Bachelor of Computer Science, International Course   2020–2022
University of Bordeaux, France

◇ Data Structures and Algorithms, Programming (Python & C), AI, Computer Architecture

Interests

Music: playing piano for 10 years, classical repertoire and film music

Sport: badminton (departmental level), tennis and climbing