

Alexis GUERIN

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MOTIVATIONS

Currently seeking **remote job** in cybersecurity. I'm aiming to contribute to innovative projects at the intersection of **fuzzing**, **vulnerability research** and **exploit development** on targets such as hypervisors, the Linux Kernel, BSD, XNU, browsers, basebands and more.

EDUCATION

SeoulTech (서울과학기술대학교)

Unix system, OS design, Korean language, Computer Engineering

- Algorithms, C programming, operating systems, network architecture, mathematics, physics

Seoul, South Korea
Feb 2024 — July 2024

ESIEA

Undergraduate for MSc. in Cybersecurity Engineering

- Algorithms, C programming, operating systems, network architecture, mathematics, physics

Laval, France
Sep 2021 — Sep 2026

WORK EXPERIENCE

Baseband security research

Kyunghee university (경희대학교)

- Exploit development for various baseband memory corruptions vulnerabilities.

Feb 2026 — Aug 2026
Yongin-si, South Korea

Hypervisor security research

Out of Bounds

- Hypervisor fuzzing using kAFL/nyx targeting the VirtualBox USB subsystem (xHCI)

Apr 2025 — Aug 2025
Seoul, South Korea

N-day exploit development internship

eShard

- Implemented an exploit for a N-day vulnerability targeting the android TEE (CVE-2022-20231)

Jun 2023 — Aug 2023
Bordeaux, France

PROJECTS

Active player, Capture The Flag Competitions

- Leader of teams Hexagon (Top 3 France 2023) and ret2school (Top 6-15 France 2020-2023)
- Focused on binary Exploitation (kernel, heap), Reverse Engineering
- Writeup example: File stream exploitation using [_IO_obstack_jumps](#)

2019 — Present

Kernel fuzzing

- Linux kernel / bsd fuzzing (crypto drivers, SCTP stack) using Syzkaller and kAFL/nyx. Found a privilege escalation in an [oot crypto driver \(CVE-2026-28529\)](#) and in [Netbsd \(CVE-2026-32848, CVE-2026-32849\)](#).

2024 — Present

Hardware analysis

- School project as part of the [ESIEA's cybersecurity lab](#). Analysis of several hardware devices (routers, smart doorbells, etc).

2025 — 2026

Side projects

- [Polymorphic packer for ELF](#), [a manual mapper](#) in Rust, my [YouTube channel](#) (french) about reversing / pwn, Linux dynamic binary instrumentation [engine](#), and [my blog](#).

SKILLS

- Programming Languages:** C, Assembly (MIPS, x86, ARM), Rust, Nix, python, LLVM
- Exploit development:** Linux heap and kernel exploitation, hypervisor exploitation
- Tools:** IDA, gdb, pwntools, WindDBG, x64dbg, binaryninja, Syzkaller., kAFL/nyx, libfuzzer
- Languages:** French (native), English (professional), Korean (intermediate)