

# ALEXIS GUERIN

*Undergraduate Student - MSc. in Cybersecurity Engineering*

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## MOTIVATION

Currently seeking an **internship** position in vulnerability research for 4 and 5 months starting from **April 2025**. I'm aiming to contribute to innovative projects at the intersection of fuzzing and **exploit development** on targets such as hypervisors, the Linux Kernel, XNU, browsers and more. Aside of that I want to improve my Korean by getting an internship in Seoul.

## EXPERIENCE

**eShard** - N-day exploit development internship Jun-Jul 2023  
*ARM, Reverse Engineering, exploit development*

- Developed my skills in ARM reverse engineering
- Implemented an exploit for a N-day vulnerability targeting the android TEE

## EDUCATION

**SeoulTech** - Semester Exchange Student (Seoul, South Korea) Feb-Jul. 2024  
*Unix system, OS design, Korean language, Computer Engineering.*

**ESIEA** - Undergraduate for MSc. in Cybersecurity Engineering (Laval, France) Graduate in 2026  
*Algorithms, C programming, operating systems, network architecture, mathematics, physics*

## PROJECTS

**CTF** - Active CTF player 2019-now 🌐  
*Binary Exploitation (kernel, heap), Reverse Engineering*

- Leader of teams Hexagon (Top 3 France 2023) and retzschool (Top 6-15 France 2020-2023)
- Writeup example: File stream exploitation using `_IO_obstack_jumps`.

**Fuzzing** 2024  
*kafl/nyx, Syzkaller, libfuzzer*

- Linux kernel fuzzing (crypto drivers, SCTP stack) using Syzkaller and kAFL/nyx.

**dryadalis** - Linux DBI engine 2022  
*C, nasm, Capstone/Keystone*

- Linux DBI engine supporting syscalls, basic blocks and instruction hooking.

**pylinkern** - Linux kernel analysis framework 2021 🌀  
*Python3*

- Linux kernel analysis framework using heuristics, inspired by bata24's gef fork.

**AD\_1DA** - Polymorphic ELF packer 2021 🌀  
*C, nasm, Capstone/Keystone*

- Polymorphic packer for ELF binaries to evade hash detection

**Side projects**  
*C, Rust, Nix, YouTube*

- Another packer for ELF, a manual mapper in Rust, my NixOs configuration, my YouTube channel (french) about reversing / pwn.

## SKILLS

<b>Programming</b>	C, Assembly ( <i>MIPS, x86, ARM</i> ), Rust, Nix, Python3
<b>Fuzzing</b>	Syzkaller, kAFL/nyx, libfuzzer
<b>Exploit Dev</b>	Linux heap and kernel exploitation, hypervisor exploitation
<b>Tools</b>	IDA, gdb, pwntools, WindDBG, x64dbg
<b>Languages</b>	French ( <i>native</i> ), English ( <i>Professional</i> ), Korean ( <i>Beginner</i> )