

Cybersecurity Intern

Alexis Bonnard

```
/** Second-year CS student at 42 Nice with hands-on offensive-security practice on HackTheBox. I think about software from an attacker's perspective and build defensive tooling – most recently SwiftLLM, a hardened LLM gateway in Rust focused on input safety and key isolation. */
```

skills {

```
{
  offensive: ["HackTheBox", "Web exploitation", "Recon", "Network pentesting"],
  defensive: ["Secure coding", "Threat modeling", "Input validation", "Rate limiting"],
  languages: ["Rust", "C / C++", "Python", "Bash"],
  infra:     ["Docker", "Kubernetes", "AWS", "Linux"],
}
```

projects {

```
> SwiftLLM github.com/Elyeden0/swiftllm 2025 – ongoing
// Rust · Secure infra
A universal LLM gateway in Rust, designed as a safer alternative to LiteLLM. Built with isolation and input safety as first-class concerns.
→ Memory-safe Rust core eliminates entire classes of common gateway vulnerabilities.
→ Per-tenant API key isolation and request-level rate limiting.
→ Strict input validation and schema normalization across LLM providers.

> Woody Woodpacker 42 Nice – 2025
// C · Assembly · ELF · Binary packing
Custom ELF64 packer / encryptor: wraps an executable with a stub that decrypts its sections at runtime. Hands-on work on the ELF format, binary patching and anti-analysis basics.
→ Implemented payload encryption and a self-decrypting stub injected into a new PT_LOAD segment.
→ Patched the ELF entry point and section headers to redirect execution into the stub.

> ETH Global hackathons 2025
// Web3 security
Smart-contract security tracks at ETH Global hackathons.
}
```

experience {

```
fn fullstack_developer(Freelance) Dec 2025 – Present
→ Shipped production apps with security-by-default: input validation, auth flows, secret management.
→ Built REST APIs on Node.js, deployed on Railway and Vercel with hardened secret management.
→ Reviewed code and dependencies for known vulnerabilities in CI.
}
```

education {

```
42 Nice
Bachelor – Software Engineering (2nd year)
Nov 2024 – Present
→ ETH Global hackathons (Web3 security tracks).
→ Head of student association.
}
```

Lang {

```
French.... Native
English... Fluent
Spanish... Basic
}
```

interests {

```
• CTF / HackTheBox
• Reverse engineering
• Low-level systems
• Biking
• Music
}
```