

# Vasco Smith

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## PROJECTS

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### kernel-anticheat

[github.com/vasie1337/kernel-anticheat](https://github.com/vasie1337/kernel-anticheat)

*C++ · Windows kernel driver*

- [Ring-0 Windows driver built as a reference anti-cheat for driver integrity testing and security research. Scans for cheat signals via process handle stripping, module enumeration, and signature checks.]

### x86-obfuscator

[github.com/vasie1337/x86-obfuscator](https://github.com/vasie1337/x86-obfuscator)

*Rust · x86-64 · PE rewriting*

- [Rust CLI that obfuscates x86-64 PE binaries through a custom lifter, applying transformations on the IR before reassembly.]

### shared-section-driver

[github.com/vasie1337/shared-section-driver](https://github.com/vasie1337/shared-section-driver)

*C++ · Windows kernel driver*

- [Windows kernel driver that establishes shared memory sections mapped into both ring-0 and ring-3, demonstrating low-overhead kernel-to-usermode communication.]

### quic-remote-memory

[github.com/vasie1337/quic-remote-memory](https://github.com/vasie1337/quic-remote-memory)

*Rust · QUIC · networking*

- [Proof-of-concept that streams remote process memory reads over QUIC using quinn.]

### llvm-obfuscator

[github.com/vasie1337/llvm-obfuscator](https://github.com/vasie1337/llvm-obfuscator)

*C++ · LLVM pass pipeline*

- [Out-of-tree LLVM passes applying mixed boolean-arithmetic transformations and control-flow flattening at the IR level. Plugs into a stock clang toolchain.]

### doh-edge

[github.com/vasie1337/doh-edge](https://github.com/vasie1337/doh-edge)

*Rust · Cloudflare Workers · Durable Objects*

- [DNS-over-HTTPS resolver running on Cloudflare Workers, with edge-local caching backed by Durable Objects for per-region state.]

## EXPERIENCE

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### Software Engineer, ByteZero

Sep 2025 – Jan 2026

*Deventer, NL · proxy infrastructure · Rust, Go, Redis*

- Worked on a geo-targeted proxy service that resells upstream pools (Oxylabs and similar); clients query proxies by country for scraping and localization workloads.
- Triaged and patched the original Go collector, then rewrote it in Rust after the Go version leaked memory under long-lived load. The service refreshes the pool from upstream providers, probes liveness, and indexes geo metadata so the API can serve per-country selections.
- A typical snapshot tracked ~140k proxies across ~133k unique outbound IPs, with duplicate detection and health checks driven from Redis.

## EDUCATION

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### Aventus, Software Developer (MBO level 4)

Aug 2024 – Jul 2027

## LANGUAGES & TOOLS

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**Languages** Dutch (native), English (B1)  
**Systems** Rust, Go, C++, x86-64 assembly, LLVM  
**Web & infra** TypeScript, Node.js, Astro, Redis, Linux, Git, Cloudflare Workers