

# Gustavo Widman

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## EDUCATION

### INTELI - Institute of Technology and Leadership

*Bachelor of Computer Engineering*

São Paulo, SP

Expected Dec 2026

- Focus on Project Based Learning (PBL) with real-world corporate partners.
- Leadership: President of EchoSec (Cybersecurity League).

## TECHNICAL SKILLS

- **Languages:** Rust (Advanced), Go, C/C++, Python, TypeScript, SQL, Assembly (x86).
- **Infrastructure & DevOps:** Nix/NixOS, Docker, Kubernetes, GitHub Actions, WireGuard, Linux Hardening.
- **Security:** Network Penetration Testing, Red Teaming, ISO 27001 Compliance, Reverse Engineering.
- **Tools & Libs:** Git, Neovim, Postgres, SQLite, Rayon (Rust), Serenity (Rust), Actix/Axum.

## PROFESSIONAL EXPERIENCE

### CamelSec

*Chief Technology Officer (CTO)*

Remote

Apr 2025 – Dec 2025

- Architected a fully reproducible infrastructure using **NixOS**, reducing deployment drift to near-zero.
- Designed secure internal networks using **WireGuard** and redundant staging environments for client data isolation.
- Lead Pentesting and Red Team operations, identifying critical vulnerabilities in enterprise client systems.
- Implemented automated compliance checks aligning with ISO 27001 standards.

### EchoSec (Cybersecurity League)

*President & Counselor*

São Paulo, SP

Mar 2023 – Present

- Led the university's cybersecurity league, organizing CTF (Capture The Flag) competitions.
- Mentored 20+ members in offensive security, binary exploitation, and Linux fundamentals.

### MW APP IT Consulting

*Full Stack Developer*

São Paulo, SP

Jan 2021 – Apr 2025

- Developed full-stack web applications using **React/TypeScript** and **.NET/C#**.
- Managed MS SQL and MySQL databases for high-traffic clients including CESP and Hunter Douglas.

## KEY PROJECTS

### Based Kernel (Rust, Assembly)

GitHub

- Developed a bootable x86-64 kernel in Rust (`no_std`). Implemented VGA drivers, interrupt handling (IDT), and memory management from scratch.

### Nix Infrastructure (NixOS, CI/CD)

GitHub

- Maintained a monorepo managing 5 machines (Cloud/Physical). Configured mail servers, DNS (AdGuard), and mesh VPNs declaratively.

### Zero-Dependency RNN (Rust)

GitHub

- Built a Recurrent Neural Network from scratch. Outperformed PyTorch in training speed for specific workloads via hand-tuned memory management.

### 1 Billion Row Challenge (Rust, HPC)

GitHub

- Optimized data processing to handle 1B rows in seconds using `mmap` and Rayon parallelism, avoiding SIMD overhead.

### Cognitive Chatbot (Rust, LLM)

GitHub

- Created a discord bot with "Free Will" and RAG memory using Vector DBs to give LLMs long-term context.