

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

Remote

Chief Technology Officer (CTO)

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.
- Led Pentesting and Red Team operations, identifying critical vulnerabilities in enterprise client systems.
- Implemented automated compliance checks aligning with ISO 27001 standards.

EchoSec (Cybersecurity League)

São Paulo, SP

President & Counselor

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

São Paulo, SP

Full Stack Developer

Jan 2021 – Apr 2025

• Developed and maintained full-stack software using **React/TypeScript**, **.NET/C#**, and **Python/FastAPI**.

• Managed **MS SQL**, **MySQL** and **SQLite** databases for high-traffic clients including CESP, Hunter Douglas and CETESB.

• Delivered production-grade features over **5+ years** of professional software development.

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 6 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.