

Gustavo Widman

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EDUCATION

INTELI (Institute of Technology and Leadership)

Bachelor of Computer Engineering

São Paulo, SP

Dec 2026

- Focused on Project Based Learning (PBL) with real-world corporate partners
- Served as President of the cybersecurity league leading 20+ members

TECHNICAL SKILLS

- **Rust & Systems Programming:** Rust (Tokio, Axum, Actix), C/C++, Memory Safety & `no_std`, SIMD & Parallelism
- **Infrastructure & DevOps:** Nix / NixOS, Docker & Kubernetes, GitHub Actions, AWS & Google Cloud
- **Databases & Back-end:** PostgreSQL & Sqlx, SQLite Optimization, Python (FastAPI / Flask), C# / .NET
- **Security & Networking:** Red Teaming & Pentesting, ISO 27001 Compliance, WireGuard & Tailscale, Linux Hardening

PROFESSIONAL EXPERIENCE

CamelSec

Chief Technology Officer (CTO)

Remote

Apr 2025 – Dec 2025

- Architected reproducible infrastructure using **NixOS** and WireGuard for client data isolation
- Led red teaming operations identifying critical vulnerabilities in enterprise client systems
- Implemented automated compliance checks aligning with **ISO 27001** standards

MW APP

Desenvolvedor Full Stack

São Paulo, SP

Jan 2021 – Apr 2025

- Developed full-stack software using **React**, **TypeScript**, **.NET**, and **Python** (FastAPI)
- Delivered production-grade features over **5+ years** of professional software development

EchoSec (Cybersecurity League)

Conselheiro / Presidente

São Paulo, SP

Mar 2023 – Present

- Liderei a liga de segurança cibernética organizando competições nacionais de CTF
- Mentored members in offensive security, binary exploitation, and Linux fundamentals

KEY PROJECTS

Pure Rust Neural Engine (Rust)

- Architected a from-scratch RNN achieving **20x** speedup using custom Workspace memory reuse.

GitHub

One Billion Row Challenge (Rust)

- Optimized data processing of 1B rows to **1.8s** using Rayon parallelism and mmap.

GitHub

Extreme Performance API (Rust)

- Engineered an Actix-Web service sustaining **2,917 RPS** with **1.3ms** P50 latency via SQLite.

GitHub

x86-64 Educational Kernel (Rust / Assembly)

- Developed a bootable `no_std` kernel implementing Multiboot2, page tables, and VGA drivers.

GitHub

Declarative Infrastructure (Nix / NixOS)

- Maintained a monorepo managing 5 machines using **NixOS** for fully declarative infrastructure.

GitHub