

Gustavo Widman

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EDUCATION

INTELI (Institute of Technology and Leadership) <i>Bachelor of Computer Engineering</i> <ul style="list-style-type: none">Focus on Project-Based Learning (PBL) with real-world corporate partnersLeadership: President of EchoSec (Cybersecurity League).	São Paulo, SP Expected Dec 2026
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TECHNICAL SKILLS

<ul style="list-style-type: none">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.	
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PROFESSIONAL EXPERIENCE

CamelSec <i>Chief Technology Officer (CTO)</i> <ul style="list-style-type: none">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.	Remote Apr 2025 – Dec 2025
EchoSec (Cybersecurity League) <i>President & Counselor</i> <ul style="list-style-type: none">Led the university's cybersecurity league, organizing CTF (Capture The Flag) competitions.Mentored 20+ members in offensive security, binary exploitation, and Linux fundamentals.	São Paulo, SP Mar 2023 – Present
MW APP IT Consulting <i>Full Stack Developer</i> <ul style="list-style-type: none">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.	São Paulo, SP Jan 2021 – Apr 2025

KEY PROJECTS

Based Kernel (Rust, Assembly) <ul style="list-style-type: none">Developed a bootable x86-64 kernel in Rust (no_std). Implemented VGA drivers, interrupt handling (IDT), and memory management from scratch.	GitHub
Nix Infrastructure (NixOS, CI/CD) <ul style="list-style-type: none">Maintained a monorepo managing 6 machines (Cloud/Physical). Configured mail servers, DNS (AdGuard), and mesh VPNs declaratively.	GitHub
Zero-Dependency RNN (Rust) <ul style="list-style-type: none">Built a Recurrent Neural Network from scratch. Outperformed PyTorch in training speed for specific workloads via hand-tuned memory management.	GitHub
1 Billion Row Challenge (Rust, HPC) <ul style="list-style-type: none">Optimized data processing to handle 1B rows in seconds using mmap and Rayon parallelism, avoiding SIMD overhead.	GitHub
Cognitive Chatbot (Rust, LLM) <ul style="list-style-type: none">Created a Discord bot with “Free Will” and RAG memory using Vector DBs to give LLMs long-term context.	GitHub