# MUNIQUE FEITOZA

**Software & Systems Engineer | Mainframe, Systems & Security**

*Low-Level Systems · Enterprise COBOL · High-Performance Infrastructure · Systems Hardening*

Rio de Janeiro, RJ, Brazil (Open to Remote / Hybrid / Relocation) • +55 (21) 99408-9964 • muniquefeitoz4@gmail.com
LinkedIn: LinkedIn • GitHub: GitHub • Portfolio: Portfolio

## PROFESSIONAL SUMMARY

Systems-focused Software Engineer specialized in low-level computing, backend resilience, and mainframe architectures. Proven track record designing machine-level telemetry agents (Rust), core business platforms (Python, C, x86 Assembly), and enterprise systems on IBM z/OS (Enterprise COBOL, JCL, z/Architecture). Skilled at diagnosing low-level bottlenecks, data encoding/alignment, socket throughput, and process isolation while enforcing strict transactional integrity and robust security postures.

## PROFESSIONAL EXPERIENCE

**Winup Network** — *Founding Software Engineer (Solo Engineer)* **Sep 2025 – Oct 2026**

*Held end-to-end technical leadership and autonomy over the company's entire technology stack, spanning bare-metal servers, backend infrastructure, security postures, and client-facing enterprise software.*

- **Full-Cycle Architecture & Engineering:** Architected and delivered scalable web systems and complex backend services (Python, TypeScript, SQL), drastically eliminating processing bottlenecks and powering critical enterprise operations.
- **Native Systems & High Performance:** Engineered machine-level system daemons and telemetry tooling in Rust and Python, optimizing memory allocation, execution security, socket throughput, and process isolation.
- **Infrastructure Governance & Security Posture:** Spearheaded administration of bare-metal and Linux server environments, automating deployment workflows via Shell scripting, configuring firewall/network routing, and performing proactive vulnerability assessments across APIs and web endpoints.

## FEATURED PROJECTS & OPEN SOURCE

- **Munux Ecosystem (Rust, C, Assembly):** Authored a bare-metal operating system kernel and systems research project targeting 32/64-bit architectures (x86, x86-64) and z/Architecture principles. Includes Munux-Reactive-Workspace, a reactive terminal emulator built with high-efficiency direct rendering pipelines using Ratatui and Crossterm.
- **Bare-Metal Telemetry & Pocket NOC (Rust, Kotlin):** Engineered a low-overhead, native telemetry daemon in Rust for real-time hardware and server metric aggregation, monitored and orchestrated via a companion Kotlin controller application.
- **NASA Space Apps Challenge 2025 (Global Finalist):** Earned 1st Place Regional Winner (Santo André) and selected as a Top 40 Global Finalist out of thousands of international teams with Stellar Narrators, processing, modeling, and visualizing real-time space weather data from NASA APIs.

## TECHNICAL ARSENAL

• **Mainframe & Enterprise Systems:** Enterprise COBOL, IBM z/OS, JCL, ISPF, USS (Unix System Services), Ansible for z/OS, Hercules Emulator, HLASM Foundations

• **Languages & Systems:** Rust, C, x86/ARM Assembly, COBOL, Python, Kotlin, Java, JavaScript, TypeScript, Bash/Shell

• **AppSec & Systems Hardening:** Vulnerability Assessment, Web Penetration Testing, API Hardening (JWT, OAuth), Cloud Security, LLM Security & Prompt Injection Mitigation

• **Infrastructure & Networking:** Linux Administration (Arch/Manjaro, Fedora, Debian), Bare-Metal Hardware, TCP/IP, ss, tcpdump, Cloudflare, Reverse Proxies

• **Databases & Storage:** PostgreSQL, MySQL, MongoDB, SQLite

## HONORS & CERTIFICATIONS

- **IBM Z Xplore – Advanced — IBM (2026):** Advanced hands-on competencies in COBOL programming, Ansible automation on z/OS, data sets, security, and enterprise workloads.
- **Enterprise COBOL Programming with VSCode — IBM (2026):** Development, debugging, and compilation of Enterprise COBOL applications utilizing modern developer tooling (Zowe, VS Code, and Git integration).
- **IBM Z Xplore – Concepts — IBM (2026):** Core architecture fundamentals of IBM Z mainframes, z/OS operating environment, USS, datasets, and JCL execution.
- **TOP 2 Overall Ranking — HackerSec CTF:** Attained rank #2 nationwide by achieving a 100% completion rate across all advanced Capture The Flag (CTF) challenges on the platform.
- **HCP V2 (HackerSec Certified Pentester):** Demonstrated hands-on offensive capabilities across multi-layered infrastructure (Web, APIs, Cloud, and LLMs).
- **Global Finalist — NASA Space Apps Challenge 2025:** Top 40 global placement among thousands of international participant teams.
- **Full Software Development Track — FreeCodeCamp:** Certified competencies across Algorithms, Data Structures, APIs, Microservices, and Front-End Libraries.

## EDUCATION

**Associate of Science in Systems Analysis and Development (ADS)** — Anhanguera University **Graduated**

**B.S. in Physics (Emphasis on Computational Physics) — Fluminense Federal University (UFF)**

*Undergraduate coursework focused on advanced calculus, numerical methods, and scientific computing.*