Josué Leiva

Santiago, Chile • josuenicolas@protonmail.com

LinkedIn: /in/josuenicolas • GitHub: /n0t-f0ur13r

Civil Telematics Engineering student with solid foundations in C++ and Python. Passionate about software development, algorithms, and learning new technologies. Proactive learner seeking part-time or remote entry-level opportunities to apply coding skills.

EDUCATION

Universidad Técnica Federico Santa María (UTFSM)   Santiago, Chile
B.Sc. in Civil Telematics Engineering   Expected Graduation: 2029
- **Relevant Coursework:** Data Structures & Algorithms, Calculus, Database Management Systems.
- **Academic Achievement:** Helper editor at *Propuesta Dominio 5* for Foro Nacional de Seguridad 2025.

TECHNICAL SKILLS

Languages: C++ (STL, Smart Pointers), Python (Pandas, NumPy, Automation), Java, SQL.
DevOps & Tools: Linux (Ubuntu/Debian), Vim, Git/GitHub, Docker.
Core Concepts: Operating Systems, OOP, Relational Databases (PostgreSQL).
Languages: Spanish (Native), English (Advanced C1).

PROJECTS

Modular Web Application for Emergency Services   Dec 2025 – Present
- Developed a responsive front-end using *Django* and *Tailwind CSS*, creating modular components to reduce code redundancy.
- Designed a high-contrast UI/UX navigation system specifically for emergency contexts, clear and fluent interface for mobile devices.
- *Stack:* HTML5, Tailwind CSS, Python (Django), PostgreSQL, Git.

IoT Weather Station & Data Logging   Sept 2025
- Prototyped a weather monitoring node using *ESP32* to transmit sensor data via HTTPS to ThingSpeak.
- Solved SSL/TLS handshake latency issues on embedded constraints by optimizing library usage.
- *Stack:* C++, Arduino Framework, HTTP/HTTPS APIs, PlatformIO.

AREAS OF INTEREST

- **Professional Interests:** Industrial IoT (Mining), Edge Computing, Real-Time Operating Systems (RTOS), Numerical Methods.
- **Hobbies:** Analog Photography, Origami, Calligraphy.