IVAN ARIZMENDI

SOFTWARE DEVELOPER

Mexico   +15866274497   ivan@ironslash.com

PROFILE INFO

Technical engineer and full stack developer with over 5 years of experience in Python, React, and Node.js, combining strengths in automation, data handling, embedded systems, and web application development. International experience in high-pressure environments within the automotive industry (Stellantis), alongside independent development of SaaS platforms like Factural.app. Strong focus on building robust, efficient, and user-centered systems. Passionate about learning, innovation, and delivering real-world impact.

EDUCATION

2006
UNAM MEXICO

- Master of Industrial Engineering

SKILLS

- Languages: Python, Node.js, JavaScript, C++
- Frontend: React.js, TailwindCSS, Vite
- Backend & APIs: Flask, FastAPI, Express.js
- Databases: MongoDB, SQLite, PostgreSQL
- DevOps: Git, VPS, CI/CD (basic), NGINX
- Automation: Web scraping, XML/PDF processing, SAT integrations
- Automotive Protocols: CAN, LIN, OBD-II
- Tools: CANalyzer, CANape, MotoMD, CDA

LANGUAGES

- English (Business Fluent 100%)
- Spanish (Native)

WORK EXPERIENCE

Independent Full Stack Developer   2020 - PRESENT

- Built and maintained Factural.app, a web platform for generating Mexican electronic invoices (CFDI 4.0).
- Developed REST APIs with Node.js and Python (FastAPI), and full user interface using React.
- Implemented PDF generation, SAT (Mexico Tax) integration, and XML data validation using Python.
- Designed and deployed MongoDB and SQLite database systems.
- Automated administrative processes including mass CFDI downloads, validation, and reporting.

Controller Technologies Corporation   2021-2025
Propulsion System Team Member & Reflash Technical Lead

- Led a team of engineers for BEV ECU reflashing in Stellantis vehicle platforms.
- Developed internal Python tools to automate ECU programming processes via OBD-II.
- Diagnosed complex network and software issues using CAN, LIN, and related protocols.
- Participated in high-level triage for the Dodge Charger EV at Stellantis HQ (Michigan).
- Coordinated with international teams in the US and Italy under tight deadlines.

Controller Technologies Corporation   2018-2021
ECU Software Update Technician

- Performed field updates and diagnostics on modules (EDM, IPC, CVADAS) across several platforms (JT, KX, KM, VF).
- Used tools like CANalyzer, CDA, and MotoMD to execute reflashing tasks.
- Provided support during plant launches and test yard validations.