

# JUAN MANUEL SILVA

Cybersecurity · Python & Full Stack Development · OT & Industry 4.0  
Chaco, Argentina | [linkedin.com/in/jmsilva83](https://linkedin.com/in/jmsilva83) | [github.com/jmsD3v](https://github.com/jmsD3v) | [jmsilva.dev](https://jmsilva.dev)

## SUMMARY

Cybersecurity student (Associate Degree, TECLAB, graduating December 2026) and Cyberdefense undergraduate (UNDEF). Python and Full Stack developer with a security focus, at ArgOS (Release 3, Ekoparty 2026) and with a public portfolio of offensive, defensive, forensic, AI and OT security tools and labs. Over 25 years in electrical and industrial infrastructure, plus a diploma in Industry 4.0 (Python, PLCs and industrial protocols), let me bring cybersecurity and software to the OT world. Looking for my first cybersecurity role, remote or with relocation to Vaca Muerta.

## EXPERIENCE

### Python Security Developer

ArgOS

Aug 2025 – Present

Remote

- Technical audit and secure refactoring of the ArgOS system's Python tools.
- Identified and fixed vulnerabilities; improved architecture and code quality.
- Implemented anti-reversing hardening and protection of internal logic.
- Contributed to Release 3, presented at Ekoparty 2026.

### IT Infrastructure Analyst

HEXA Servicios Integrales SAS

Sep 2026 – Present

Resistencia, Chaco · Hybrid

- Prepared the technical survey and bids for 3 IT equipment tenders; the first one was awarded.
- Compared vendors and hardware, saving 20% to 25% on equipment cost in each tender.
- Brought a branch office's full infrastructure online: network, firewall, backups, inventory and access control.

### Full Stack & DevSecOps Developer

jmsDev · Freelance

Aug 2023 – Present

Remote

- Deployed and tuned Wazuh as a SIEM: rules, FIM, SCA and MITRE ATT&CK mapping.
- Hardened Next.js + Supabase applications: CSP, HSTS, server-side validation and RLS.

### Certified Electrician

Self-employed

2000 – Present

Chaco

- Electrical installation supervisor at the 40 MW General Pinedo solar park (Grupo Ingalfa, 2024–2025): LV, MV, grounding and fiber optics through commissioning, including Siemens PLC integration at the substation.
- Led field crews with a focus on safety and operational continuity.

**Other:** sales and administration at Telecom Personal (2020–2023) and branch manager at Ghiggeri Motos (2018).

## PROJECTS · [github.com/jmsD3v](https://github.com/jmsD3v)

- Suite of 9 Python security tools:** offensive (ReconAI, WebHunter, PhishSim), defensive (SOC-Lite, ThreatFeed, HoneyGrid) and forensic (DFIR-Auto, MalwareScope, PcapForge).
- AI Agent Security Lab:** red/blue team lab for AI agents with 408 payloads, OWASP LLM Top 10 and MITRE ATLAS coverage, and 416 tests.
- OT labs:** Solar OT Lab (solar park mini-SCADA; Modbus TCP and IEC 60870-5-104; 390 tests) and Critical Infra Secure Lab (simulated oil well site; Modbus, DNP3 and OPC UA).

## EDUCATION

### Associate Degree in Cybersecurity — TECLAB

2025 – Dec 2026

Intermediate degree: Cybersecurity Administration Assistant, top GPA of my cohort.

### Bachelor's Degree in Cyberdefense — National Defense University (UNDEF)

2026 – In progress

### Diploma in Industry 4.0 — IngeLearn · Python, PLCs, Node-RED and industrial cybersecurity

2025 – In progress

### Full Stack Development — Coderhouse

2023 – 2024

## CERTIFICATIONS

Google Cybersecurity Professional Certificate (2025) · MOOC in Cybersecurity, 315 h, University of Málaga (2026) · CRTOM, Red Team Leaders (2026) · C-OSIA, Compuweb (2026) · CPPS, Hack & Fix (2025) · AI Engineer for Data Scientists Associate, DataCamp (2025)

## SKILLS

**Security:** Wazuh, Sigma, MITRE ATT&CK, Nmap, Burp Suite, Metasploit, Wireshark, OSINT.

**Development:** Python, FastAPI, TypeScript, JavaScript, Next.js, React, Node.js, Supabase, PostgreSQL, Docker, Git, CI/CD; getting started with Rust.

**OT & Industry 4.0:** Modbus TCP, IEC 60870-5-104, DNP3, OPC UA, MQTT, Node-RED, Siemens PLC, SCADA.

**Soft skills:** field crew leadership, teamwork, technical communication, self-taught, problem solving under pressure.

**Languages:** Spanish (native); English (B1).