

Arturo Alejandro Paniagua Romero

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github.com/ArturoPaniagua-portfolio

WORK EXPERIENCE

NeoBiotech México (Remote) | Python Developer | May 2024 – Mar 2025

- Automated order-processing pipeline for dental implant logistics, reducing processing time by 30 % and errors by 25 %.
- Integrated FDA/CE regulatory datasets using FastAPI micro-services; enabled real-time validation for 100 % of SKUs.
- Led weekly code reviews ensuring 90 % unit-test coverage and PEP 8 compliance in CI pipelines.
- Collaborated with cross-functional, delivering features within Agile sprints.

Intelligent Networks for Critical Business | Cybersecurity Intern | Feb 2024 – Apr 2024

- Performed end-to-end penetration tests on web applications and internal networks, uncovering 30+ critical vulnerabilities that were remediated within an average of two weeks.
- Led a company-wide phishing simulation affecting 200+ employees; malicious-link click-through rate dropped from 27 % to 8 % after two training cycles.

Aislamientos Termoacústicos SATESA | Software Developer | Nov 2022 – Jan 2023

- Built internal KPI dashboard in Flask; increased reporting accuracy by 15 % and reduced manual report time by 4 h/week.
- Implemented RESTful endpoints and SQL migrations; wrote unit tests achieving 85 % coverage.

EDUCATION

B.S. in Computer Engineering | Tecnológico de Monterrey, Mexico | Jun – 2026

SKILLS

Python • Flask • FastAPI • Algorithms & Data Structures • Git • SQL • Azure • TypeScript • JavaScript • Linux • Power BI

Spanish (Native) • English (C1 – Advanced)

Problem-Solving • Teamwork & Code Reviews • Adaptability • Attention to Detail • Continuous Learning

PROJECTS

- **Streaming Platform (C++)** — Developed a user-admin model with review and audit capabilities using OOP principles.
- **SARS-CoV-2 Genomic Analysis (R)** — Retrieved and analyzed genomic sequences using phylogenetic techniques.
- **IoT Smart Monitoring (Azure)** — Connected sensor data from microcontrollers to Azure for real-time analysis and alerts.