Edgar Alejandro Santiago Pérez

SOFTWARE ENGINEER

+52 55 1240 6221 | xlesthathx@gmail.com | Mexico City, Mexico
linkedin.com/in/alejandrosantiagodev | github.com/SirLestat | alejandro-santiago.dark-matter-labs.space

PROFESSIONAL SUMMARY

Software engineer with 3 years of experience building web applications for financial institutions and public-sector organizations in Mexico. Focused on **React** and **TypeScript**, with hands-on experience integrating core banking systems, implementing security controls for flows handling sensitive data, and releasing applications in **Docker** containers. Previously a programming instructor, an experience now applied to enabling **AI**-assisted development tooling and technical documentation for the team.

SKILLS

Languages: JavaScript | TypeScript | Python | HTML | CSS
Frontend: React | Next.js | Material UI | Tailwind CSS | Formik | Figma
Integration & APIs: Node.js | Express | REST | OpenAPI/Swagger | Axios | Postman
Containers & deployment: Docker | Linux | GitLab CI/CD | Harbor | Kubernetes | Rancher | Nginx
Quality & testing: Jest | React Testing Library | SonarQube
Automation & AI: n8n | Ollama (local inference) | LLM APIs (OpenAI, Gemini) | Prompt engineering
Data & version control: PostgreSQL | Git | GitHub
Languages spoken: Spanish (native) | English (advanced technical reading, basic conversational)

EXPERIENCE

Software Engineer
QUARKSOFT — Mexico City | Client: Banco Azteca | May 2025 – Present

- Development and integration of **REST API** consumers against **core banking systems** and a corporate gateway, working from **OpenAPI/Swagger** specifications, for digital onboarding, investment products and payroll disbursement applications.
- Development of **React** components (**JavaScript/TypeScript**) and of the service layer behind them.
- Implementation of security controls in flows handling sensitive data: data encryption, token-based authentication (**JWT**), production code obfuscation and per-environment configuration management.
- Configuration and support of **CI/CD** pipelines (**GitLab CI/CD**): building **Docker** images on **Linux**, publishing to a private registry (**Harbor**) and releasing versions to QA and production on **Kubernetes** clusters managed with **Rancher**.
- Migration of legacy **JavaScript** modules to **React** and **TypeScript**, analyzing the existing code to preserve business rules and production behavior.
- Evaluation and rollout of **AI** coding assistance tooling for the team under compliance and data residency criteria, including a **local inference** deployment integrated into the development environment, and training the team on its use.
- Development and maintenance of automated tests (**Jest / React Testing Library**) through an **AI**-assisted workflow with a defined methodology, stack and fallback criteria, plus remediation of static analysis findings (**SonarQube**).

Systems Developer
CFE TEIT — Mexico City | January 2024 – January 2025

- Development of internal web systems and interfaces with **JavaScript**, **React** and **Next.js**, including portals for the organization's **civil protection** area.
- **API** integration and handling of complex forms with **Formik** for capturing and validating operational data.

Technology Instructor
PILARES — Mexico City | February 2023 – January 2024

- Taught **HTML**, **CSS**, **SQL** and **Python** to students across different levels.
- Led the finalist team at the **Mictlán Hackathon** with **Rintel**, a prototype aimed at improving public transport through route and schedule planning.

EDUCATION

B.Eng. in Information Technologies and Systems
Universidad del Valle de México (UVM) — Mexico City | 2025 – Present

AWS Cloud Quest: Cloud Practitioner
Training badge, Amazon Web Services | 2026

PROJECTS

WhatsApp Bot for a Motor Repair Shop — Dark Matter Labs
Personal project | 2026 — in progress

Conversational assistant that handles customer enquiries and quotes from a price catalogue, for an electric motor repair shop.

Stack: n8n | Supabase | WhatsApp Cloud API | LLM API | Docker | Linux | Cloudflare Tunnel

Douceur Cosmetics
Personal project | April 2025

Landing page with shopping cart for a natural cosmetics brand. douceur-cosmetics.vercel.app

Stack: React | TypeScript | Tailwind CSS | Vercel · **Lighthouse:** 100 performance · 100 best practices · 92 SEO · 91 accessibility