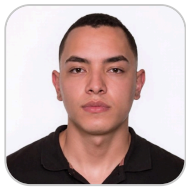
Johan Antonio Peña López

Full-Stack Engineer



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SUMMARY

I'm a full-stack engineer from Armenia, Colombia. I've taken on freelance software work since my early teens, built web and desktop applications for a gym from 2020, and at Technologies of Colombia I have resolved more than 1,000 cases on a healthcare information system. Today I also design, build and deploy my own products: multi-tenant platforms, AI agents with guardrails, payment flows and data pipelines.

WORK

Full-Stack Developer · Technologies of Colombia (TOC)

2025 - 2026

Enterprise web applications for the healthcare sector, built on Oracle APEX.

- Resolved more than 1,000 cases on SIISA, the company's healthcare information system, across clinical, accounting and administrative workflows, including critical production errors.
- Designed and implemented functional modules in Oracle APEX with JavaScript, CSS and PL/SQL.
- Built complex business logic with APEX collections, PL/SQL processes, conditional branches, Dynamic Actions and optimized SQL over Oracle relational tables.
- Found and fixed security gaps in the system.
- Introduced new technologies and carried out migrations to new environments.

Full-Stack Developer · Freelance

2018 - 2026

Micro-apps, websites and custom digital solutions for small businesses and entrepreneurs, remote from Armenia, Colombia. The full cycle: understanding the client's problem, then design, development, deployment and maintenance.

- Built lightweight web applications and business tools tailored to micro-enterprises and independent businesses.
- Developed websites and landing pages focused on clarity, usability and turning visitors into customers.
- Created custom solutions that automate repetitive tasks and improve day-to-day operations for small teams.
- Worked directly with clients to gather requirements, propose practical solutions and deliver within agreed timelines.
- Maintained and improved projects over time, adapting them as each business grew or its needs changed.

Full-Stack Developer · Gym Imperius

2020 - 2024

Web and desktop applications, built with a team of developers.

- Led a team of developers on Java projects.
- Implemented solutions with React, Node.js and SQL.
- Worked with designers and project managers on the quality of the final product.

SELECTED PROJECTS

Pulse AI · AI system · Multi-tenant platform

Deployed

A growth operating system where AI agents propose and deterministic rules decide what runs.

Next.js 16 · React 19 · TypeScript · Supabase Postgres + RLS · Vercel AI SDK · AI Gateway

joanpe.dev/work/pulse-ai

SismoNexo Colombia · Data analytics · Academic research — Academic research

A seismic atlas of Colombia with probabilistic forecasts that say how uncertain they are.

Python · pandas · scikit-learn · SHAP · FastAPI · React

joanpe.dev/work/sismonexo

Content OS · AI tool · Private content workflow — Deployed

A private tool that turns a topic into a ready-to-record script, a carousel and a publishing slot — and then follows each post to the DMs and clients it brought in.

Next.js 16 · React 19 · TypeScript · AI SDK · Gemini · Groq

joanpe.dev/work/content-os

Santiago Entrenador · Client work · Landing page with online payments — Deployed

A coach's landing page that turns social-video traffic into WhatsApp conversations and takes payment for reservations, signed and verified on the server.

React 19 · Vite · TypeScript · Tailwind CSS 4 · Framer Motion · Vercel Functions

joanpe.dev/work/santiago-entrenador

TuPatriSeguro · Client work · Catalog with an admin panel — Deployed

An advisory firm's site with a multi-category catalog the owner edits from a private panel, and a consent record that can show who accepted what, and when.

Next.js 16 · React 19 · TypeScript · Tailwind CSS 4 · Motion · Neon Postgres

joanpe.dev/work/tupatriseguro

ZONACARS Sound Lab · Client work · Landing page ready for paid campaigns — Deployed

A landing page for a car audio and detailing shop that turns visits into WhatsApp quotes and measures each one — but only loads ad trackers after the visitor says yes.

HTML · CSS · JavaScript · Google Consent Mode v2 · GA4 · Meta Pixel

joanpe.dev/work/zonacars

Nexus · AI agents · WhatsApp automation — Prototype

WhatsApp answered for small businesses — by AI agents, or by a menu bot that never calls a model.

Next.js 16 · TypeScript · AI SDK · Google Gemini · Neon Postgres · pgvector

joanpe.dev/work/nexus

SKILLS

Languages
TypeScript · JavaScript · Python · Java · Kotlin · SQL · PL/SQL

Frontend
React · Next.js · React Three Fiber · Three.js · Tailwind CSS · MapLibre GL JS

Backend
Node.js · FastAPI · Spring Boot · Django · REST APIs · Webhooks

Data
PostgreSQL · Supabase + RLS · Oracle APEX · Drizzle ORM · pgvector · MongoDB

DevOps & cloud
Docker · Kubernetes · Git · GitHub Actions · CI/CD · Vercel

AI & data science
Vercel AI SDK · Tool-calling agents · Embeddings + RAG · scikit-learn · pandas · SHAP

EDUCATION

Postgraduate Specialization in Data Analytics Applied to Business — 2026 - 2027
EAM University Institution · Armenia, Colombia

Bachelor's Degree in Software Engineering 2022 - 2026
EAM University Institution · Armenia, Colombia

Technologist in Software Development 2022 - 2026
EAM University Institution · Armenia, Colombia

CERTIFICATIONS

Oxford Test of English — Level B2 · University of Oxford, 2024

Cybersecurity · Google · Coursera, 2023

Artificial Intelligence Management · Alura, 2025

Microsoft Full-Stack Developer · Microsoft · Coursera, 2024

Junior Developer · Amazon · Coursera, 2023

LANGUAGES

Spanish (native) · English (B2)