

# Carlos Antonio Salazar Trinidad

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## Skills

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**Languages:** TypeScript, Python, SQL, Kotlin, Ruby, Dart

**Backend:** Node.js, Express, Django, FastAPI, PostgreSQL, Redis, Prisma, TypeORM

**Frontend & Mobile:** React, Next.js, Tailwind CSS, Jetpack Compose (Android), Flutter

**AI & DevOps:** Docker, N8N, OpenAI API, RAG, LangChain, Git, GitHub Actions

**Spoken Languages:** Spanish (Native), English (Fluent)

## Experience

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**Freelance / Self-Employed**, Freelance Software Architect & Full-Stack Engineer

Remote / Hybrid

Jan 2023 – present

- Solely responsible for the **end-to-end architecture**, tool selection, and deployment of custom AI solutions for local businesses.
- Designed and built 'Sofi' (El Espacio), selecting **PostgreSQL** and **Node.js** to handle complex timezone logic and real-time reservations.
- Architected 'Gascom' from scratch, designing a raw SQL schema for logistics and implementing a critical leak alert system.
- Evaluated and implemented privacy-focused stacks, deploying local LLMs via **Ollama** and custom scrapers using Firecrawl.

## Projects

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### Multi-Tenant AI CRM SaaS

Aug 2025 – Nov 2025

Enterprise-grade CRM with lead scoring and conversational AI.

- Architected the entire system using **Clean Architecture**, selecting **InversifyJS** for dependency injection and modularity.
- Designed a scalable **PostgreSQL (pgvector)** schema to support multi-tenancy and RAG-based AI features.
- Orchestrated background processing infrastructure using **Redis** and **BullMQ** to handle GPT-4 scoring pipelines.

May 2025 – July 2025

### Preca - FinTech/PropTech Platform

Tenant credit screening SaaS for the Mexican real estate market.

- Solo architect: Defined the tech stack (**Next.js 16, Stripe, Wee Trust**) and built the platform from concept to production.
- Designed a secure dual-authentication architecture (JWT + API Keys) to allow both human and AI-agent access.
- Engineered the PDF digital signature workflow to ensure 100% legal compliance with Mexican regulations.

Mar 2025 – May 2025

### Tire Inventory Intelligence API

Business intelligence API for inventory analysis and forecasting.

- Designed a **Hexagonal Architecture** to decouple business logic from the **FastAPI** framework and database.
- Built high-performance data pipelines using **Pandas**, enabling complex Excel analysis and forecasting.
- Containerized the entire stack with **Docker** for consistent deployment across development and production environments.

Jan 2025 – Mar 2025

### Finsur - Android E-Commerce App

Native Android application built with modern Kotlin practices.

- Structured the mobile architecture using MVVM and Clean Architecture principles for long-term maintainability.
- Selected and integrated modern Android libraries (**Jetpack Compose, Hilt, Coroutines**) for a reactive UI/UX.

Aug 2024 – Dec 2024

### E-Commerce Microservices System

Containerized platform with polyglot microservices.

- Conceptualized a polyglot microservices system, delegating logic between **Node.js** (Core) and **Ruby** (Postal Codes).
- Designed the **Docker Compose** orchestration network to ensure seamless communication between isolated services.
- Implemented a self-healing data strategy with automated shell scripts for database updates.

## Education

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**BS      Tecnológico Nacional de México Campus Tuxtla Gutiérrez**, Computer Systems Engineering (Ing. Sistemas Computacionales)  
• Specialized in Software Architecture, AI Integration, and Full-Stack Development.

Chiapas, Mexico

Aug 2022 – June 2026