

Juan Alberto Toledo Tello

Senior Full-Stack Engineer · React / TypeScript · Python / FastAPI · AWS

I deliver complete products, from definition to production, with a spec-driven methodology and AI-assisted development that lets me cover what normally takes a team. Open to senior engineering, founding engineer and technical co-founder roles.

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PROFILE

Full-stack engineer with 9+ years building production systems in logistics, education, business communications and B2B analytics. I work with a spec-driven methodology: I investigate the existing codebase, define each feature in a closed specification with acceptance criteria, implement it in verifiable blocks with Claude Code, and verify it with tests and code review before delivering. This lets me take a business problem to production end to end, at the quality of a team. I adapt to each project's stack and cloud: I have shipped to production with React and Vue, Python and Node, PostgreSQL and MongoDB, on AWS, GCP, Azure, Supabase and Cloudflare.

- Account search engine for a B2B analytics platform, owned end to end, with weekly live demos to the CEO.
- Restaurant ordering and pay-at-table platform, defined and built end to end in 2 weeks.
- Bulk-load engine in logistics: from 30 to 8 minutes with zero failures over 50,000+ records and 5 databases.

TECH STACK

Frontend	React, TypeScript, Next.js, Vue 3, Redux/RTK Query, Tailwind, PWA, Socket.io
Backend	Python, FastAPI, Node.js, NestJS, REST APIs, JWT/OAuth2, role-based access, Entra ID, Okta
Data	PostgreSQL, MongoDB, Redis, Supabase, pgvector
Cloud & infra	AWS (Lambda, ECS, EventBridge, S3), GCP, Azure, Docker, GitHub Actions, Serverless, Cloudflare, Vercel
AI	Claude Code, Cursor, prompt engineering, validation of generated code; Claude API, OpenAI, RAG, conversational agents
Practices	Pytest, Vitest, Jest, contract testing, CI/CD, spec-driven development, Agile/Scrum, release management

EXPERIENCE

Senior Full-Stack Developer — QuadSci Mar 2026 – Present
United States · Remote

Analytics platform for B2B software companies: helps Customer Success teams understand which customers are growing, which are at risk, and why. FastAPI + Vue 3 + PostgreSQL, deployed into each client's own cloud (AWS, GCP or Azure).

- **Navigator, account search for Customer Success:** owner of the project end to end. Lets a CSM find customers by combining business criteria (growth, feature usage, risk signals), save searches, compare results across months (which accounts stayed, entered or exited) and export them.
- **Delivery and coordination:** shipped in iterations with team review and weekly live demos to the CEO and product; I define the architecture and tasks, distribute backend and frontend work with the team and integrate the pieces.
- **Performance:** removed the bottleneck of one of the dashboard's main visualizations with a database index and a configuration change.
- **Machine learning:** connected a retention-recommendation model (Python/CatBoost) built by the data team to the dashboard; while defining the interface I found gaps between what the model returned and what the screen needed, and we resolved them before building.
- **User access:** integrated Microsoft corporate sign-in (Entra ID) alongside Okta and designed user invitations with role-based permissions and production-safe database changes; fixed a bug that duplicated users.
- **Operations:** diagnosed and documented two production incidents from AWS logs (a wrong deployed version; expired database credentials).

Python FastAPI Vue 3 PostgreSQL Docker AWS GCP Azure Claude Code

Mexico City

Employee transportation platform for companies (routes, vehicles, passengers, access passes). 27 microservices; I built 6 from scratch and contributed to 20+.

- **Main web platform (React / TypeScript):** real-time monitor with hundreds of vehicles on a map and their status, bulk uploads and downloads with progress tracking, drag-and-drop route editor, bilingual UI.
- **Bulk update engine:** uploads of thousands of trips from Excel were timing out. I redesigned the flow with queues (RabbitMQ) and serverless functions (AWS Lambda): **50,000+** records across **5 databases**, from **30 to 8 minutes**, zero failures.
- **TraxiBot, WhatsApp assistant:** passengers get their access pass 24/7 without human support. Built from scratch with 3 messaging providers (Meta, Twilio, Baileys) on AWS ECS; delivered **60% faster** than estimated with AI-assisted development.
- **Real-time server:** vehicle positions every 40 seconds, live filters, boardings and ETA for multiple clients at once (Socket.io + Redis + MongoDB).
- **Serverless:** generation and encryption of **10,000+** access QR codes in a single request; automatic sync of vehicles, routes and trips with a partner platform every 5–30 minutes, removing manual data entry.

React TypeScript Node.js Python Socket.io RabbitMQ AWS Lambda EventBridge ECS PostgreSQL MongoDB

Earlier roles

- **Frontend Developer — PALO IT** (consultancy), Mexico City · May 2022 – Nov 2023. Frontend on client projects with Node.js, AWS Lambda and serverless.
- **Frontend Developer — moons**, remote · Jul 2021 – May 2022. New main website, referral system and patient portal (Next.js).
- **Frontend / UX Developer — Grupo Salinas**, Mexico City · Jun 2019 – Jul 2021. Web apps and PWAs with Angular, Vue and React; reusable component libraries.
- **Front End Developer — INEEL**, Cuernavaca · Feb 2017 – Apr 2019. Institutional document repository (Angular, MySQL, REST) and components of a CFE system.

PRODUCTS BUILT END TO END

Restaurant QR menu, ordering and pay-at-table platform · 2026 · founder

Defined and built in 2 weeks at 2 hours a day. Diners scan, order and pay from their phone; each person can run their own tab or the table can order through the waiter, and both coexist. Staff console, owner dashboard and menu management. React (PWA) + FastAPI + PostgreSQL + Conekta. In usability testing, CDMX pilot.

BrightPath, EdTech SaaS for private schools · 2025 – present · co-founder

Schools create and validate assessments aligned to the curriculum. 965 questions, 670+ auto-classified by competency with the Claude API, validation against 68 official documents with semantic search (RAG, pgvector). Google and Microsoft sign-in, data isolated per school (Supabase, RLS). Next.js.

Wapi, WhatsApp + Instagram inbox with AI agent · 2025 · founder

A single inbox for SMBs to handle sales and support, with an AI agent that replies on its own. Chatwoot + Hono.js + OpenAI; live demo with a real client.

Analytics dashboard with AI features · 2026

Vue 3 + FastAPI with AI chat over the data, LLM-generated recommendations and full functionality without AI. Docker, CI/CD, 424 automated tests, AWS. quadsci.juantoledo.com.mx

Others: Tendero, POS kit for micro-businesses on Android tablets (2025, paused) · Cauce, digital product consultancy, cauce.tech (2024 – present, co-founder).

EDUCATION, CERTIFICATIONS & LANGUAGES

Master's in Management & Web Engineering — UNIR, 2024 · **B.Eng.** Computer Systems Engineering — TecNM Zacatepec, 2017

Claude Code in Action · JavaScript Developer · Scrum Foundation Professional Certificate

Languages: Spanish (native) · English (professional working proficiency in reading and writing; spoken English improving)