

JUAN PABLO GALLEGOS

SOFTWARE ENGINEER · FULL-STACK SYSTEMS & AI

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Full-stack engineer with 7 years shipping products end to end, from frontend to backend architecture. I think in systems and treat AI as a **first-class subsystem of the product** — not a bolt-on — designing the harness, orchestration, and UX around it. I've built RAG agents, owned DDD backends, and led architecture on products used at fintech scale. I operate autonomously in early-stage environments, shipping fast without breaking what's underneath.

SKILLS

AI & Agents	LLM app development, agent orchestration, harness engineering, tool calling, streaming, MCP, Agentic UX, RAG · Vercel AI SDK, TanStack AI, LangChain, Mem0
Frontend	React (deep — since class components), TypeScript, Next.js, Remix, TanStack (Start / Router / Query), React Native, SSR / SEO-first, Tailwind
Backend	Node.js, Nest.js, Hono, Express, FastAPI (Python), REST, BFF
Data	PostgreSQL, Supabase, Redis
Infra	Vercel, Cloudflare, Railway, AWS (S3, Amplify), Netlify, Docker, CI/CD (GitHub Actions)
Testing	Vitest, Jest, Playwright, Testing Library, agent/browser testing
Product glue	Stripe, Mercado Pago, Polar, Lemon Squeezy · Auth (Clerk, Supabase Auth) · Resend / React Email · webhooks

EXPERIENCE

Bulkify — Backend Engineer (Freelance) Oct 2025 – Apr 2026

- Led several bounded contexts of an agricultural-machinery e-commerce backend (Nest.js), owning the most complex one: a **Checkout domain** integrating Payments, Cart, User, and Delivery.
- Modeled Checkout as an *"intention to purchase"* rather than a completed transaction, supporting partial deposit payments — a core requirement for high-value machinery where buyers commit a deposit before paying in full.
- Introduced **Spec-Driven Development** to the team's workflow, standardizing how engineers moved from spec to AI-assisted implementation across both juniors and seniors.
- Defined domain boundaries and service interfaces within a hexagonal/DDD codebase, delivering a clean, extensible backend for an internal B2B agricultural platform.

Lina — AI Engineer (Freelance) Jun 2025 – Oct 2025

- Built a **WhatsApp conversational agent** that recommends nearby local businesses from natural-language queries (e.g. "ice-cream shops near me"), used by ~15 active merchants with a feedback loop driving iteration.
- Re-architected the system from a brittle n8n no-code wrapper to a custom **Python/LangChain** stack, gaining full control over agent behavior and improving response quality.
- Built a retrieval layer combining structured merchant data with scraping pipelines, plus a dedicated **memory module** handling conversation context and recommendations.
- Reduced hallucinations by iterating on the LangChain setup and system prompt against real merchant feedback; self-hosted the full pipeline (Chatwoot + infrastructure) on a VPS.

Clara — Frontend Engineer (Contractor) Jan 2024 – Dec 2024

- Part of a 15-engineer team building a high-stakes **legaltech platform** serving VCs, startups, and law firms across multiple jurisdictions; modeled complex, decision-heavy form flows with **xState** state machines to keep deterministic UI behavior reliable.
- Extracted major features — **Cap Table** and **Data Room** — into independently deployable micro-frontends using **Module Federation**, plus a standalone design-system repo.
- Helped decompose two large, heavily-scaled codebases (main app + backoffice) into modular pieces, improving navigability and enabling independent team deployment.

Galicia Seguros — Tech Lead Jan 2023 – Dec 2023

- Technically led a team of 4 delivering **three insurance products now in production** at a major financial institution: hail, life, and phone insurance.
- Owned and built the **BFF layer (Nest.js)** bridging the bank's Java legacy systems and the frontend, shielding client apps from backend complexity.
- Coordinated engineering, product, and design across a full-year roadmap, working with the bank's internal architecture team on shared standards.

EARLIER EXPERIENCE

- **luxurycars.ch** — Frontend Engineer (Freelance) · Next.js · 2025
- **Modamily** — React Native Developer (Contractor) · 2022–2023
- **H2HI Platform** — Frontend Engineer (Contractor) · React + Python; integrated speech-to-text AI into client analytics · 2021–2022
- **The Brag House** — React Native Developer (via Asamblo, now PayRetailers) · 2021
- **OZ** — Frontend Developer · Angular / Ionic (iOS), MERN · 2020
- **CIBA** — React Developer (Internship) · healthcare-supplies dashboard · 2019

EDUCATION

BSc in Data Science (in progress) — Universidad Siglo XXI 2025 – Present
Full-Stack Developer Bootcamp — Acámica 2018 – 2019

HIGHLIGHTS

Startup Weekend Rosario 2025 — Winner: built *Orbe*, a working data-driven decision platform, in 54 hours — best solution among all competing teams.

Languages: Spanish (native) · English — professional working proficiency (fluent reading/listening, conversational speaking).