

JUAN PABLO GALLEGOS

SOFTWARE ENGINEER

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Software Engineer focused on designing **AI-powered systems** that scale with real-world usage. I work at the intersection of **system design, product thinking,** and **AI-assisted development,** structuring complex problems into reliable and maintainable solutions. My approach emphasizes clarity, validation, and architectural consistency when working with **AI-generated code** and **multi-agent workflows.** Previously, I led the development of multiple digital products in the insurance industry and contributed to fintech platforms used by global companies

CORE EXPERTISE

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|----------------------|--------------------|----------------------------|
| Product Engineering | System Design | AI-assisted Development |
| Solution Structuring | AI-powered Systems | End-to-End System Thinking |

KEY ACHIEVEMENTS

- Led the delivery of 3 digital insurance products** for a major financial institution, defining backend architecture (BFF with **Nest.js**) and coordinating cross-functional teams to meet a full-year roadmap.
- Designed and implemented a hexagonal architecture (DDD) for an e-commerce platform,** structuring **domain-driven APIs** and introducing **AI-assisted workflows** to improve development consistency and scalability.
- Contributed to a +30% increase in e-commerce sales,** overseeing the implementation and technical direction of a high-performing online store.
- Improved system maintainability and development velocity in a global fintech environment,** contributing to **micro-frontend architecture** and shared patterns across multiple products.

PROFESSIONAL EXPERIENCE

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

Designed **backend architecture** for an e-commerce platform in the agricultural sector.

- Implemented a **hexagonal architecture (DDD)** using **Nest.js**, structuring **domain-driven APIs** for scalability and maintainability.
- Introduced **AI-assisted development workflows,** improving development consistency and accelerating delivery across the team.
- Defined domain boundaries and service interfaces, enabling a clean and extensible backend ready for production deployment.

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

Built a WhatsApp-based conversational **agent** for local commerce discovery.

- Designed and implemented a **RAG-based system** using **Python** and **LangChain,** incorporating memory, recommendations, and data retrieval strategies.
- Transitioned from no-code workflows (**n8n**) to a custom **AI architecture,** improving flexibility and control over agent behavior.
- Integrated multiple services (**Chatwoot, scraping pipelines, hosting infrastructure**) into a unified conversational system.

Clara — Frontend Engineer (Contractor)

Jan 2024 – Dec 2024

Worked on a global fintech platform used by companies such as Binance and Endeavor, contributing to both public-facing and internal products.

- Contributed to the evolution of a **micro-frontend architecture**, improving system maintainability and enabling independent deployment across teams.
- Structured complex UI flows using state machines (**xState**), increasing reliability and predictability in high-impact user interactions.
- Established shared patterns between engineering and design, improving UI consistency and developer experience across multiple applications.

Galicia Seguros — Tech Lead

Jan 2023 – Dec 2023

Led the development of three production-ready insurance products used by a major financial institution.

- Defined and implemented a **BFF architecture (Nest.js)** to bridge frontend applications with legacy backend systems.
- **Coordinated cross-functional teams (engineering, product, design)** to deliver a full-year roadmap across multiple products.
- **Contributed to system design decisions and architectural standards** in collaboration with internal architecture teams.

H2HI Platform — Frontend Engineer (Contractor)

Sep 2021 – Mar 2022

Worked on a platform for analyzing recorded conversations and extracting structured insights from audio data.

- Developed a **full-stack** solution integrating **React** and **Python** to process and visualize audio-based insights.
- Integrated external **AI APIs (speech-to-text)** and transformed raw outputs into structured, client-specific analytics.
- **Collaborated directly with US-based stakeholders**, participating in demos and feature definition in an English-speaking environment.

EDUCATION

BSc in Data Science (in progress)

2025 – Present

Universidad Siglo XXI, Buenos Aires

- Focused on data analysis, statistics, programming, and data-driven decision making.

Full-Stack Developer Bootcamp

2018 – 2019

Acámica

- Intensive program covering JavaScript, Node.js, HTML, CSS, and core software development principles.

ADDITIONAL HIGHLIGHTS

- **Languages:** Spanish (Native), English (B1 – Working proficiency)
- **Awards & Recognition:** Startup Weekend Rosario 2025 — Winning Team

Co-developed Orbe, a data-driven platform designed to improve decision-making through structured information and analytics, recognized as the best solution among multiple teams during a 54-hour startup competition. Contributed to product definition, system design, and technical implementation.