

MAURO GENNA

AI Engineer & Full Stack Developer | NestJS · Next.js · TypeScript | Agentic Systems & LLM Integration

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Full Stack Engineer specialized in integrating AI systems into production SaaS products — from agentic, function-calling AI assistants to conversational voice pipelines, backend architecture, and billing infrastructure. Founder of an AI agent platform for SMBs (WhatsApp, voice, and web chat), bringing a product perspective that's rare in a technical profile: I understand both the architecture and the business it needs to support. Track record building and scaling SaaS platforms from MVP to production across US and Spanish markets, with strong ownership over architecture decisions and revenue-critical features.

WORK EXPERIENCE

Founder & Full Stack Engineer

Arnie (www.arniechat.com) | Remote / Mendoza, Argentina | May 2026 - Present

- **Founder & sole architect:** Founded and built end-to-end a B2B SaaS platform delivering AI agents over WhatsApp, voice, and web chat for SMBs across Latin America.
- **Full-stack AI architecture:** Designed the full architecture (NestJS, Next.js, PostgreSQL) for two AI assistants (chat + voice) sharing a common context engine: PDF/website ingestion, chunking, and a Postgres full-text + trigram retrieval pipeline, with per-tenant data isolation across client companies.
- **Agentic AI integration:** Integrated OpenAI function calling, Retell AI, and ElevenLabs into agentic, multichannel conversational agents capable of executing real actions, not just responding.
- **End-to-end product ownership:** Own the full product lifecycle — technical architecture, backend/frontend development, AI pipeline design, go-to-market strategy, and direct sales to SMB customers.
- **Growth:** Implemented content strategy and technical SEO (JSON-LD schema, long-form vertical pages) to drive organic acquisition.

Full Stack Engineer (AI-Focused Projects)

UseTeam | Spain (Remote) | April 2025 - Present

- **Voice-AI product:** Designed and implemented a voice-AI property management assistant covering 50+ residential condominiums in Spain, automating incident reporting and administrative workflows.
- **AI pipeline engineering:** Built Retell AI voice automation pipelines that captured structured incident data and triggered backend processes, email notifications, and SMS alerts.
- **AI product delivery:** Key contributor in a 4-engineer squad delivering AI-powered MVPs for international clients across multiple industries; shipped 5+ AI-driven MVP platforms from concept to production.
- **Other AI systems integrated:** AI-powered job portal, collaborative task and idea management system (Miro-style), AI-based beauty image generator with e-commerce integration.
- **Leadership:** Led several projects within the team end-to-end, from architecture decisions to delivery, while independently building scalable, production-ready interfaces with React, Next.js, and TypeScript.
- **Stakeholder collaboration:** Collaborated directly with stakeholders to align technical execution with business goals and client requirements.

Software Engineer

Highpoint Growth Networks | United States (Remote) | March 2024 - August 2026

- **AI agent systems:** Designed and shipped a role-based, multi-agent AI system (venue, advertiser, admin, and internal messaging assistants) using OpenAI function calling, with a propose/execute architecture that separates AI-generated proposals from human-confirmed database writes — including a scoped, read-only SQL sandbox for admin-level reporting.
- **Production ownership at scale:** Core engineer in a 5-developer team maintaining and evolving a production ad-tech SaaS platform serving thousands of active screens across hundreds of venues and advertisers nationwide.
- **Platform redesign:** Led the full platform redesign, modernizing the frontend architecture and improving scalability, maintainability, and long-term extensibility.
- **Billing migration:** Architected and executed the migration from a third-party billing provider to an in-house system, transferring hundreds of active subscriptions while ensuring billing continuity and data integrity.
- **Full-stack delivery:** Owned end-to-end feature delivery across database modeling, backend services (NestJS), and frontend applications (Next.js, React, TypeScript).

TECHNICAL & STRATEGIC SKILLS

AI & Automation: OpenAI APIs (function calling), Claude Code, Retell AI, ElevenLabs, Agentic AI Systems, Voice Automation Pipelines, RAG (keyword-based retrieval, production)

Languages & Core Stack: TypeScript, JavaScript, Node.js, NestJS, React, Next.js

Databases & Infrastructure: PostgreSQL, MongoDB, SQL & NoSQL, Vercel, AWS, Railway

Architecture & Backend: REST APIs, Database Modeling, Payment Systems (Stripe, Creem), Subscription Logic, Data Migration

Frontend & UX: Component Architecture, Scalable UI Systems, State Management, Performance Optimization

Product & Collaboration: Agile/Scrum, Technical Planning, Feature Estimation, Cross-functional Collaboration, Founder / 0-to-1 Product Ownership

EDUCATION

Full Stack Web Development - Henry Bootcamp (2023)

Intensive program focused on modern web application development and agile collaboration.

Front-End Development - NextU (2022)

Training in React-based frontend engineering.

LANGUAGES

Spanish - Native | English - Professional working proficiency | Italian - B1 Certified (CILS - Università per Stranieri di Siena)