

Marco Agüero Barboza

Full-Stack Developer · AI & Workflow Automation

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Summary

Full-Stack Developer building production-grade web applications, AI-driven automations, and SaaS products for international clients (Belgium, Spain, Costa Rica). Strong background in Next.js, TypeScript, and PostgreSQL; experienced in designing distributed architectures (queues, isolated workers), LLM-powered workflows (n8n, OpenAI, Claude, Open-Router), and defensive security measures (SSRF prevention, rate limiting).

Currently finishing the Bachelor's Degree in Computer Engineering while shipping client work remotely.

Experience

Nexgrow (own agency), Freelance Full-Stack Developer

Remote

Sourced and delivered web and AI-automation projects for international clients. Led the full development lifecycle (SDLC) — architecture, development, deployment, and coordination of freelance collaborators.

Jan 2024 – present
2 years 9 months

- Designed and shipped production web applications with Next.js, TypeScript, and PostgreSQL.
- Built autonomous AI agents and multi-step automations with n8n, OpenAI, Claude, and Python for clients across Europe and Latin America.
- Designed and optimized PostgreSQL schemas for data integrity and query performance across 5+ applications in production.
- Led distributed teams of freelance developers and designers: task planning, code review, and on-time delivery.
- Stack: Next.js · TypeScript · n8n · OpenAI API · PostgreSQL · Vercel · Framer · Figma

AI-Supply, Tech Lead

Spain (Remote)

Technical lead for AI and automation projects serving enterprise clients. Bridge between business requirements and technical architecture across web and automation workstreams.

Dec 2024 – Feb 2026
1 year 3 months

- Translated complex business requirements into architecture specifications and roadmaps for AI/automation and web projects.
- Built advanced automations with n8n, OpenAI, Claude, and Python: CRM integrations, enterprise chatbots, document generation at scale, email processing.
- Shipped web applications and dashboards with Next.js, Node.js, and VPS (Hetzner, DigitalOcean) on top of Cloudflare + GCP.
- Stack: n8n · OpenAI API · Claude API · Python · Node.js · Next.js · Hetzner · GCP · Cloudflare

Projects

MUTE AI Agent

Belgium (Remote)

WhatsApp Business AI agent for an electric scooter company.

Jan 2026 – Mar 2026

- End-to-end lead recovery and order confirmation with integrated Stripe payments — minimal human intervention from lead to paid order.
- Detects leads in "not contacted" state, sends automated follow-ups, verifies shipping information, offers upsells, and generates payment links in real time.
- Stack: n8n, WhatsApp Business API, Stripe, OpenAI, Zoho CRM.

Web Audit AI SaaS (personal project)

(alpha) Own SaaS for automated web audits with conversational AI analysis.

- Decoupled architecture: Next.js UI, distributed queue (BullMQ + Redis), isolated workers on Bun, and LLM agent (OpenRouter) for real-time findings interpretation.
- SSRF (Server-Side Request Forgery) defense via pre-resolution DNS lookup and private range blocking.
- Defense-in-depth: Cloudflare Turnstile CAPTCHA, rate limiting, and workers with restricted network permissions.
- Stack: Next.js, Bun, PostgreSQL, Redis, BullMQ, Cloudflare R2, OpenRouter SDK, Better-Auth.
- Live demo (alpha): webscan.nexgrow.dev

Remote
Aug 2026 – present

Erasmus+ Documentation Automation

Mass generation of official Erasmus+ program documents using LLMs, n8n, and Google APIs.

- Eliminated 20+ hours/week of manual administrative work.
- Stack: n8n, Google Sheets, Google Docs API, Apps Script, LLMs.

Spain - Remote
June 2025 – Sept 2025

Jivis HRMS

Multi-role HR platform (thesis capstone project): Admin / HR / Employee roles, branches, vacations, attendance, payroll, reporting, and geofenced clock-in/clock-out per branch.

- Stack: Next.js, PostgreSQL, Tailwind, ShadCN, Drizzle ORM, Better-Auth.

Costa Rica
Feb 2026 – June 2026

Other projects and live demos

- [See portfolio](#)

2022 — present

Skills

Core: Next.js, TypeScript, PostgreSQL, Node.js, Bun, Python

Frontend: React, Astro, Tailwind, ShadCN, Framer Motion

AI & Automation: n8n, OpenAI API, Claude API, OpenRouter, LangChain, webhooks

Backend & Data: Node.js, Express, Hono, PostgreSQL, Redis, BullMQ, MongoDB, Supabase

Infra & Tools: Docker, Git/GitHub, AWS, Vercel, Cloudflare, Cloudflare R2, Linux (Hetzner VPS)

Design & CMS: Figma, Framer, Webflow, Payload

Languages: Spanish (Native), English (B2 - Professional Working Proficiency).

Education

UNED (Universidad Estatal a Distancia), Bachelor's Degree in Computer Engineering

- Capstone project: centralized HR platform for employee management, payroll processing, and branch administration.
- Focus: Network Security, IT Administration, Project Management.

Costa Rica
Jan 2024 – June 2026

UNED (Universidad Estatal a Distancia), Associate Degree in Computer Engineering

- C++, C#, Java, SQL, systems fundamentals.

Feb 2022 – Dec 2023

Platzi, Full-Stack Development Career Path

- Self-directed specialization: full-stack development, databases, server administration.
- Currently actively studying English.

Jan 2021 – present