SEBASTIAN LÓPEZ

AI ENGINEER

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I care about building AI that's genuinely useful, not just impressive. Today, I'm building tools for NGOs, cooperatives and local organizations making community knowledge more accessible. My current work includes a RAG-powered agent that helps people explore migrant narratives through text or voice. I'm looking for AI engineering opportunities in Barcelona or remotely with teams across Europe.

EXPERIENCE

AI Engineer - Web Developer | May 2026 - Present (freelance)

Plataforma Cero | Barcelona, Spain

- Built a functional RAG agent using LangChain, Gemini Embeding models and ChromaDB to search migrant video narratives
- Developed video transcription pipelines and a FastAPI service with conversational memory and voice input
- Evaluated retrieval and response quality with RAGAS and traced agent runs and cost using LangSmith
- Developed a responsive Astro website with a reusable design system and searchable editorial catalogue
- Implemented SEO, automated tests and CI/CD workflows using GitHub Actions and Cloudflare

Web Developer | Feb - April 2026 (freelance)

Almas Brasileiras | Barcelona, Spain

- Built a multilingual website for a samba school with Next.js, React, TypeScript and Tailwind CSS, deployed to Cloudflare Workers
- Implemented SEO, automated tests and CI/CD workflows using GitHub Actions and Cloudflare

Event Producer & Sound technician | 2022 - 2026

Cooperativa Cultural L'Occulta | Barcelona, Spain

- Lead multidisciplinary teams from 4 to 12 members
- Worked as sound technician 250+ live shows, podcast, conference indoor and outdoor
- Created a system of templates to manage technical equipment & artist communication

Sound Engineer, Producer, Technical Specialist | 2018 - 2026

Freelance | Spain - Colombia - Chile

- Founder of Son verbena, an independent music production and publishing label | 2025
- Produced 2 albums & 5 singles for LATAM folk artists, soundtracks for 3 short films, main themes of 2 video games and 1 podcast
- Co-produced and managed stage operations for two editions of "Festes del Raval" | Barcelona, 2024 - 2025
- Developed multimedia content (audio, video, and copy) for 5 artists, a music school, and various health-related companies

Teacher, Music & Audio | 2016 - 2026

Freelance | Spain - Colombia

- Facilitated workshops on live audio, music theory and design thinking for diverse teams | 2021- 2026
- Taught music classes to 25+ students annually, ranging from early childhood (age 3) to adults (max age, 75) | 2018 - 2026
- Provided online private instruction in ear training, composition, and music history for 10 students per year | 2019 - 2022
- Coached 30 students annually (ages 3 - 50) in music theory, instrument performance and academic thesis writing | 2016 - 2024

PROJECTS

Personal AI Projects | 2026

- Voice Agent integration with Vapi and Deepgram - Live Demo - winner of the 2026 Vapi challenge
- Voice transcription app combining speech-to-text with LLM-powered text enhancement - Repository
- Multimodal RAG agent into a widget - Presentation - Ironhack final project

EDUCATION

AI Engineering Bootcamp | Jan - Jul 2026

Ironhack | Online

Introductory Course on AI Development | 2026

Big School | Online

Enti - Escola de Noves Tecnologies | 2021 - 2022

Master's in Music and Sound Production for Entertainment | Barcelona

Bachelor's in Music Education 2014 - 2020

Universidad Tecnológica de Pereira | Colombia

SKILLS

Languages

Spanish (Native) | English (Fluent) | French (Basic) | Catalan (Basic)

Technical

AI/ML | LangChain, RAG, Agentic AI, Model Context Protocol (MCP), Pandas, PyTorch, Scikit-Learn

Tooling & Infrastructure | Shell, Git, VSCode/Antigravity, Google Colab, Docker, Jupyter Notebooks, Hugging Face

Core competences | Teaching, Research, Cross-domain Communication, Adaptive Problem Solving