

SEBASTIAN LÓPEZ

JUNIOR AI SOFTWARE RESEARCH ENGINEER

📍 Barcelona, Spain

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I am transitioning into AI Engineering after 10+ years designing live sound systems, directing technical teams and teaching music & technology across Spain, Colombia and Chile. This decade of manipulating acoustic data gave me a deep and intuitive grasp of signal processing, time series analysis, and human-centered design-core assets I now use to develop ML models.

EXPERIENCE

AI Engineering Bootcamp | Jan - Jul 2026

Ironhack | Online - Barcelona

- Developing expertise in Python, Machine Learning, data pipelines, and neural networks through intensive bootcamp training
- **Project** | Optimized sales predictions through a linear regression pipeline featuring automated datetime parsing, categorical encoding, and error analysis (MAE/MSE)
- **Project** | Built and deployed Deep-Learning CNN model (85.3% accuracy) and transfer learning models (90%+ accuracy) using Flask and Docker on Hugging Face

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

- Founded of Son verbená, 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 | Barcelona - 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

Support Staff | 2024

Manifesta 15, European Nomadic Biennial | Barcelona

- Collaborated with cross-functional teams in a high-traffic environment serving over 87,000 attendees
- Managed access control and transaction flows (ticketing, POS, and cash handling)
- Facilitated visitor inquiries and maintained venue safety, achieving zero incidents throughout the event

PROJECTS

Sales Funnel Dashboard & File Extractor | 2026

- **Project stack** | Next.js (React), Tailwind CSS, Vercel
- Developed a privacy-first client-side analytics tool for SMBs to visualize pipeline data with zero cloud dependencies
- Custom data transformation logic to parse and normalize disparate CSV/JSON sales exports into a unified funnel schema
- Optimized frontend performance for large dataset rendering using React state management, ensuring zero data leakage

EDUCATION

AI Engineering Bootcamp | Jan - Jul 2026

Ironhack | Online

Introductory Course on AI Development | 2026

Big School | Online

Enti - Escola de Noves Technologies | 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) | Catalan (Basic) | French (Basic)

Technical knowledge

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

Tooling & Infrastructure | Shell, Git, VSCode/Antigravity, Google collab, Docker, Jupyter, Hugging Face, Vercel,

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