JORGE LEAL

Software Engineering Student
& Data Analysis Enthusiast

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PROFILE

Fullstack Developer specialized in web solutions and data dashboards, experienced in hybrid architectures, headless CMS, multi-tenant systems, and performance optimization. Passionate about integrating interactive front-end with efficient back-end and automated cloud deployments. Currently exploring Machine Learning integration for predictive analysis and intelligent user experience improvements.

LANGUAGES

- Spanish: Native
- English: Intermediate

EDUCATION

Universidad Autónoma Metropolitana, Unidad Xochimilco
Bachelor's in Social Communication
Graduated: October 2015

Universidad Abierta y a Distancia de México
Bachelor's in Software Engineering
Started: January 2025 | Currently studying

STACK

- Frontend: Next.js 14, React 18, SvelteKit, Tailwind CSS, Three.js, NiceGUI, Astro
- Backend: FastAPI, KeystoneJS, Python, Node.js
- Databases: PostgreSQL (Neon), SQLite, Redis
- DevOps / Deployment: Docker, Fly.io, GitHub Codespaces, Cloudinary
- Other Tools: GraphQL (URQL), Axios, Plotly, MusicGen, Gemini

PROJECTS

LaZalza | Next.js + KeystoneJS + PostgreSQL
News and editorial website about music, cinema, and popular culture.
- Frontend with Next.js 14 App Router and ISR (5 min).
- Headless CMS with KeystoneJS + PostgreSQL.
- Cloudinary integration and interactive 3D logo.
- Stack: TypeScript, React, Tailwind CSS, GraphQL, Docker, Cloudinary

Raccoonin Records | Next.js + KeystoneJS + PostgreSQL
Platform for an independent music label with hybrid architecture.
- Migrated from CSR to ISR and posts with infinite pagination.
- Multimedia embeds, streaming metalinks, and dynamic sitemap.
- Stack: TypeScript, Next.js 14, React, Tailwind CSS, GraphQL, KeystoneJS, Cloudinary, Three.js, Docker

Beat Catalogue | SvelteKit + FastAPI + PostgreSQL
Music catalog with hybrid SSR and Spotify-style modal overlay.
- Backend with FastAPI + PostgreSQL and custom admin panel.
- Audio player with shuffle, play counter, and persistent theme switcher.
- Stack: TypeScript, SvelteKit, Tailwind CSS, FastAPI, SQLAlchemy, Cloudinary, Three.js

Databoard | FastAPI + NiceGUI + Plotly + Gemini API
Multi-tenant dashboard for real-time metric monitoring.
- Modular architecture with intelligent caching and resilient error handling.
- Interactive visualizations with Plotly: charts, heatmaps, geolocation, and Spotify-style KPIs.
- Advanced features: CSV export, timezone-aware data, metrics forecasting using Gemini API (AI/ML).
- Stack: Python, FastAPI, NiceGUI, Plotly, PostgreSQL, Tailwind CSS, Fly.io.

BSTCGenerator | FastAPI + MusicGen + Gemini
Audio generation platform for producers with cost-efficient architecture.
- Decoupled FastAPI backend with AI worker running on Google Colab (GPU) using MusicGen.
- Embedding and recommendation system based on feedback and pattern analysis.
- Stack: Python, FastAPI, SQLite, Librosa, MusicGen, Gemini, Vanilla JS, GitHub Codespaces, Google Colab.

INTERESTS

Music production, audio engineering, innovative technologies