



Alejandro Martínez

Software engineer · Valencia, Spain

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alexmj.dev

github.com/lyricalstring

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STACK

CODE

TypeScript, Go, Rust, Python, Solidity

BACKEND & DATA

Bun, Elysia, Go Chi, gRPC, RabbitMQ, PostgreSQL, MongoDB, ScyllaDB, Redis

FRONTEND & INFRA

Next.js, React, Astro, Tauri, Expo, AWS, Terraform, Docker, MCP

EDUCATION

Florida Universit ria

Engineer's degree, Robotics

Jul 2022 – Jun 2024

IES L'OM

Middle School Diploma, Electrical & Electronics Engineering

LANGUAGES

Spanish native
English professional
French A2

OPEN SOURCE

Node-Discord-Bot

Discord bot framework. 140★, 3M users across 28k servers. MIT.

Lovely-Logs

Type-safe logging library for Node, browser and Lambda. Zero deps. MIT.

Ley Abierta engine

Hybrid BM25 + RAG with custom int8 SIMD C kernel. AGPL-3.0.

— SUMMARY

Software engineer. I build and ship products end to end. Most of what I've worked on has been in places where mistakes cost money or trust: government-grade crypto custody, Bitcoin data infrastructure, AI products in production. Comfortable on my own, faster in a team.

— EXPERIENCE

Trilo Sole architect

2025 – present

Sole architect of an AI workspace where 11 role-based coworker AIs join every doc as live peers with persistent memory and tool access. One monorepo ships web, iOS, Android, desktop and a Python transcription agent. Live at trilo.chat.

TypeScript · Rust · Python · Bun · Elysia · Supabase · Tauri · MCP · LiveKit

Satstream Sole engineer

2024 – 2025

Multi-protocol Bitcoin indexer covering BRC-20, Runes and Ordinals charms. Four indexers write into a 4-database cluster for sub-second queries, exposed through a 14-category REST API, five SDKs, an MCP server and a block explorer. 376 commits across nine production repos.

Go · Rust · Python · ScyllaDB · MongoDB · Postgres · Redis · gRPC · AWS CDK

Asset Reality Engineer

Jul 2022 – Feb 2024

Owned two load-bearing systems at a government-grade crypto custody platform: the multi-sig governance engine signing off every withdrawal, and the 12-chain blockchain ingestion layer monitoring the network in real time. Platform AUM grew \$200M → \$500M over my 19-month tenure (\$1B+ today).

Go · TypeScript · React · MongoDB · Postgres · RabbitMQ · AWS · Terraform · Fireblocks

Konar Technologies Founder · sole engineer

2021 – present

My independent engineering studio. Built and run tecpar.es, the B2B SaaS behind an electronics workshop with daily users. Also publish OSS and freelance.

TypeScript · Next.js · Prisma · Rust · Bun · Docker · Traefik

— SELECTED PROJECTS

Ley Abierta

2026

Made 190 years of Spanish law searchable in plain Spanish. 475,000 articles processed with AI summarisation and embeddings, query latency cut from minutes to under a second.

Crossflow Network

2023 – 2024

Cross-chain DeFi lending protocol shipped at Hexmount. Custom Cosmos SDK L1 with MPC-ECDSA threshold signatures bridging Bitcoin, EVM and Solana.