

Lizandro Zerpa

Full Stack Software Engineer

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SUMMARY

Full stack software engineer in Valencia. I design integration architecture for production systems, including AI connectors, the services beside them, and the contracts those systems already use. Recent work includes Fountain's Connectors Marketplace and a Web2/Web3 engagement product that peaked at 400,000 active users.

SKILLS

Programming languages: JavaScript, TypeScript, Python, C, C++, Solidity, Rust

Frameworks and libraries: Next.js, React, Node.js, NestJS, HTML, EJS, SCSS, CSS, Material, Tailwind, Ethers, Wagmi, Viem, Redis, Angular, Electron, Django, RabbitMQ

Architecture and cloud: Git, GitHub Actions, Docker, AWS, Kafka, Kubernetes, Google Cloud

AI and agentic systems: LLM integrations, agent tooling, OpenAI, Claude, Cursor, Claude Code, Grok bots

Databases: PostgreSQL, MongoDB, Redis, Drizzle ORM, Prisma ORM, GraphQL, Firestore, Firebase Realtime Database, Neo4j

Architecture practice: API design, token-based authentication, microservices, data modeling, LLM and ML integration

EXPERIENCE

Senior Software Engineer — 01/2026 – 09/2026

Fountain · Automations, USA

- Led Fountain's Connectors Marketplace as senior software engineer, and owned end-to-end system design and integration architecture for production AI systems.
- Personally defined agent skills, external tools, and MCP integrations that let the wider CUE agent use connector capabilities in a live production environment.
- Architected the deployment and distributed infrastructure that replaced expensive legacy HR data tools, directly resulting in a 35–45% operational cost reduction.
- Shipped scalable external tool integrations and operated production infrastructure for secure data synchronization, managing API gateways, Kafka pipelines, and automated CI/CD.

Next.js, React, TypeScript, MongoDB, PostgreSQL, OpenAI, Claude, AWS, GitHub Actions, Kafka, Mocha, Vitest, microservices, multi-prod environments

Full Stack Software Engineer — 08/2024 – 12/2025

HUB.xyz · Abu Dhabi

- Architected and developed a social engagement product bridging Web2 and Web3, reaching a peak of 400,000 active users.
- Engineered a multimodal AI data-labeling platform for high-throughput processing used by Adobe, Google, and OpenAI.
- Built the Electron desktop worker and the distributed infrastructure connecting those workers to the central AI and indexing system.

Next.js, NestJS, Neo4j, Apollo Client, GraphQL, AuraDB, PostgreSQL, Kubernetes, Prisma, Cloudflare, yt-dlp, ffmpeg

Full Stack Software Developer — 02/2022 – 08/2024

Think & Dev · Delaware, USA

- Led smart-contract development for a multi-chain (Ethereum and Algorand) dApp covering NFT mint, bid, and claim. Authored and deployed Algorand contracts in PyTeal and Python to automate the auction and fund-split.
- CompilotAI (https://www.compilot.ai/): engineered a KYC and identity-verification SDK widget for Web3 enterprise hosts. Built the stack with Next.js, tRPC, and RainbowKit, and covered smart-contract testing with Hardhat on Polygon Mumbai.
- Covered the on-chain edge with Hardhat on Polygon Mumbai so the HTTP edge and the contract path were tested together.

Next.js, tRPC, RainbowKit, Hardhat, PyTeal, Python, Ethereum, Algorand, Polygon Mumbai

Frontend Technical Leader — 06/2020 – 01/2022

W3 It Solutions · Buenos Aires, Argentina

- Sura: led version 2.0 of the vehicle self-management PWA, built from scratch in React, for full vehicle self-management at the insurer.
- Pickit: led version 2.0 of the back-office, pickers, and client applications in React, including the packaging flow. Introduced test-driven development covering 75% of the work.
- HUMANA: engineered an Electron desktop application that ran as a kiosk for in-person client interaction.

React, Electron, PWA, test-driven development

Full Stack Developer — 09/2017 – 01/2021

Panda Group · Bogotá, Colombia

Panda Group promotes and explores blockchain technology and cryptocurrencies.

- Panda Exchange: PWA frontend and its updates through Angular 10 and later, with charting libraries and crypto wallet handling.
- Chivo Wallet, the El Salvador Bitcoin wallet: React PWA frontend and a Django API with PostgreSQL and server-rendered templates.
- Panda BTM: a Vue PWA for purchasing crypto assets, with animated purchase guides.

Angular, React, Django, Vue, PostgreSQL, PWA

Full Stack Developer — 01/2016 – 09/2016

CENEPOL C.A. · Mérida, Venezuela

Regional distribution of Movilnet and CANTV telephone cards.

- Projected and structured an administrative card system: model, user interface, sales, and billing.
- Built the system with Electron and MongoDB for Windows desktop and web deploy.

Electron, MongoDB

EDUCATION

Software Engineer Specialization — 2023 – 2025

42 Wolfsburg · Wolfsburg

Peer-to-peer education roadmap, with work in artificial intelligence and cybersecurity.

Systems Engineering Degree — 08/2013 – 03/2020

University of Los Andes · Mérida, Venezuela

Systems Engineer. Thesis: an API for a generic certification process on the Ethereum blockchain.

ACHIEVEMENTS

ETHGlobal Bogotá 2022. Winner of 3 sponsor prizes: Streamr, Worldcoin, and Pocket Network.

Bear Builders Hackathon 2022. Winner of the Metis track at the Ripio Blockchain Hackathon 2022.

Magna Cum Laude. High academic standing at undergraduate graduation, University of Los Andes.

Luis María Rivas Dávila Certificate. Awarded for 5 consecutive years for the highest academic performance at the University of Los Andes.

LANGUAGES

Spanish (Native) · English (Advanced, C1) · German (A1, in a learning path)

INTERESTS

Blockchain engineering. Contracts, identity, and the path that has to hold after the demo.
Data science. How a graph, a pipeline, or a label stream becomes something a model can trust.
Classic and modern physics. Models first. The same instinct I bring to architecture.
Astronomy. Scale, instrumentation, and sitting with incomplete data until a structure appears.

PUBLIC WORK

Earth3. A public map of the Web3 landscape for people arriving from Web2. https://earth3-six.vercel.app · https://github.com/LizanLycan/earth3