Lucas Barrena

Open Source Software Developer

+12 years of experience | +100 reusable modules | +7602 contributions

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EXPERIENCE

Internet of Things
Node.js | C/C++

Feb. 2022
Buenos Aires, AR

- Created a physical smart switch prototype
- WiFi manager in C with UI for automatic setup for IoT devices
- Firmware Over-The-Air updates in C coupled with backend for hosting
- Non-Volatile Storage library and cryptographic functions in C
- Built a CLI with development tooling for ESP32 and ESP-IDF

Cryptocurrencies
Solidity | JavaScript

Jan. 2020 – 2025
Buenos Aires, AR

- Re-built the entire Solana stack from scratch in Node.js
- Re-built Ethers from scratch for higher peformance
- Built EVM flash loans smart contracts and bots
- Created a multi 30+ network monitor of wallets
- Built Pumpfun modules for math and swap simulations
- Ran Solana Jito shreds server and decoder
- Created an EVM smart contract for deposit addresses without fees

Neural Networks
GoLang | SourcePawn

Sep. 2018
Santa Fe, AR

- Built the first neural network in SourcePawn, never seen before in the language
- Developed a neural network with genetic algorithms with momentum optimizer in GoLang
- Embedded tiny neural networks in Arduino and ATmega328P microcontrollers

PROJECTS

Cisco | *Node.js, AI* | *New*

Feb. 2025

- AI pair programming in your terminal
- Ask for changes and Cisco will edit your files
- 7 of my own reusable libraries were used to build it
- Wrote a lot of unit tests to ensure quality and zero bugs

Hypershell | *Node.js, P2P* | *251+ GitHub stars* | *122+ HackerNews points*

Nov 2022 – Oct 2023

- SSH built from scratch in JavaScript with peer-to-peer connections
- Spawn secure shells anywhere bypassing firewalls
- Forward ports with zero latency added
- Transfer files efficiently between peers

Many more projects and libraries | *725,004+ downloads last year* | *195+ stars* | *38+ forks*

- Created AI tools by using my own Model-Context-Protocol
- Built a DNS server for unlimited control over domains
- Built a reverse-proxy to host multiple apps in the same server
- Built a P2P streaming RTMP server and client for video and audio
- Reverse engineered APIs: Debank, Instagram, YouTube, IQ Option, Telegram, Midjourney

SOCIAL SKILLS

Team: Worked with remote native Spanish and English teams making weekly calls and daily chats
Leading: Employed and managed people, follow-up tasks, standardized processes, and more
Employees: Dealt with salaries, task delegation, hiring, firing, reviewed hundreds of CVs, etc
Code review: Experience with hundreds of code reviews providing positive, constructive and tactful feedback
Stakeholders: Translated complex technical concepts into clear language for actionable plans
Community: Founded an ambitious online community at lucasbarrena.com
Education: Recorded my own programming course at course.lucasbarrena.com