

Patricio Calderon

Full-Stack Software Engineer | Application Security Engineer

Spain | Available for remote and international engagements

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PROFESSIONAL SUMMARY

Full-stack software engineer building web products, backend platforms, data-intensive workflows, Rust systems, and security-sensitive software. Experienced in taking products from architecture through implementation, deployment, and operation.

PROFESSIONAL EXPERIENCE

Parity Technologies Jul 2023 - Present
Application Security Engineer

- Manage application security across the Polkadot SDK, runtimes, bridges, and ecosystem projects, including vulnerability disclosure, reviews, and remediation.
- Created and maintain PSVM, a Rust dependency-management tool with 59 GitHub stars, 13 forks, and 76 commits as of August 2026.
- Presented defense tools and the Polkadot Security Hub at Polkadot Decoded 2024 in Brussels.

CertiK May 2022 - Jul 2023
Blockchain Security Engineer, promoted from Security Intern

- Audited smart contracts, wallets, and blockchain infrastructure across Rust, Solana, Substrate, Solidity, Near, and related ecosystems.
- Identified critical and high-severity findings as an intern, earned a full-time offer, and received best finding of the month recognition multiple times.

KRYPTOSPHERE Oct 2021 - Present
Web3 Developer

- Build blockchain products and decentralized applications; co-developed AtomiK, a zero-knowledge atomic-swap prototype that won four ETHBarcelona 2023 prizes totaling more than \$12,000.

Envision Jan 2020 - Oct 2021
Software Developer

- Built e-signature workflows, company web products, and Microsoft Azure and SharePoint integrations for real-estate operations.

SELECTED PROJECTS

OpenReader [Local-first AI](#) | [Desktop + web](#)
Built a local-first AI reader for text, PDFs, EPUBs, and articles using React, TypeScript, Tauri, Rust, FastAPI, MLX, and Next.js. It delivers streaming audio generation, synchronized word highlighting, project persistence, and private offline execution.

PSVM [Open source](#) | [Rust](#) | [Polkadot SDK](#)
Created the Polkadot SDK Version Manager, now maintained in the Parity Technologies organization and usable as both a CLI and Rust library.

AtomiK [Hackathon](#) | [4 winning tracks](#)
Built a ZK-enabled atomic-swap and liquidity prototype between Aleo and XDC or other EVM-compatible chains in a four-person team, winning four ETHBarcelona prize tracks.

SKILLS

Security: Application security, security auditing, vulnerability management, threat modeling, SAST, DAST
Systems and blockchain: Rust, Polkadot SDK, Substrate, Solana, Solidity, Ethereum, Aleo
Product engineering: TypeScript, JavaScript, React, Next.js, Node.js, PostgreSQL, Supabase, Docker, Cloudflare
Delivery scope: Web, mobile, desktop, backend services, integrations, automation, and data-intensive workflows

EDUCATION AND LANGUAGES

INSA Lyon, France - MSc in Computer Science, 2021 - 2023 | Universidad Tecnica Federico Santa Maria, Chile - Civil Engineer in Computer Science, 2017 - 2023

Languages: Spanish (native), English (full professional), French (professional working proficiency)