

Alberto Robles

Vancouver, BC, Canada | jalberto.oaks@gmail.com | +1 236 330 5537
[LinkedIn](#) | [GitHub](#) | [Website](#)

SUMMARY

Senior Full Stack Engineer with 7+ years building blockchain infrastructure, TypeScript SDKs, and production financial systems. Deep expertise in smart contract development (Rust/CosmWasm), multi-chain integrations (Coreum, XRPL), and developer tooling. Track record of shipping open-source SDKs adopted by core blockchain teams, architecting DeFi primitives, and leading multidisciplinary engineering teams.

TECHNICAL SKILLS

Languages: Go, Rust, TypeScript, JavaScript

Blockchain & Cryptography: Coreum, XRPL, CosmWasm, Smart Contracts (Rust), DeFi Systems, Key Management, Public Key Cryptography, Wallet Architecture

SDK & Developer Tooling: TypeScript SDKs, OpenAPI, REST APIs, gRPC, Developer Documentation

Backend & Systems: Node.js, Microservices, Distributed Systems, Event-Driven Architectures

Frontend: React, Next.js, Vite, Webpack

Cloud & Infrastructure: Google Cloud Platform, Docker, CI/CD, MongoDB, SQL, CDN

OPEN SOURCE & SDK PROJECTS

coreum-js — TypeScript SDK for Coreum Blockchain

- Built a TypeScript SDK abstracting Coreum (now TX) chain internals, giving external developers a clean interface to connect, construct transactions, and interact with the chain without protocol knowledge.

Sologenic-xrpl-stream-js — XRPL TypeScript SDK

- Built a TypeScript SDK for the XRP Ledger enabling developers to connect, sign, and submit transactions with a developer-friendly API surface.

Sologenic NFT Marketplace API SDK — TypeScript

- Designed and shipped a TypeScript SDK for the Sologenic NFT marketplace API, enabling third-party developers to integrate NFT trading, listing, and wallet flows.
-

PROFESSIONAL EXPERIENCE

Tech Manager | Senior Engineer

TX / Sologenic (Oct 2021 – Apr 2026) - Vancouver, BC, Canada

- Shipped 20+ production smart contracts in Rust (CosmWasm) on the Coreum chain, including AMMs, ATG tokenization platforms, governance systems, and an XRPL to Coreum bridge.
- Led multi-chain integrations across Coreum and XRPL, enabling high-throughput transaction execution and cross-chain interoperability.
- Built and published TypeScript SDKs for Coreum and XRPL, adopted by external developers and the Coreum core team for official workshops.
- Designed and implemented high-performance distributed backend systems (gRPC, REST, event-driven) for financial and trading platforms in Go.
- Built DeFi primitives including AMM, order routing, execution, liquidity management, and fee distribution.
- Implemented precision-sensitive financial logic covering pricing, settlement, and rounding under on-chain constraints.
- Led, mentored, and scaled a multidisciplinary engineering team of 8 across frontend, backend, and blockchain.
- Built an internal TypeScript UI component library to standardize development, accelerate onboarding, and enforce engineering standards across junior engineers and interns.

Tech Advisor

Solotex (Nov 2024 – Apr 2026) - Vancouver, BC, Canada

- Defined system architecture for a tokenization platform on Coreum blockchain covering digital asset issuance, compliance, and trading infrastructure.
- Designed on-chain and off-chain interaction models for financial assets including tokenized asset lifecycle and upgrade strategies.

- Advised on scalable design across backend services, frontend systems, and smart contract layers.
- Evaluated scalability, security, and regulatory constraints across the full system.

React Developer

CoinField (Sep 2019 – Oct 2021) - Vancouver, BC, Canada

- Built a desktop crypto wallet leveraging Electron and XRPL with key management and transaction signing.
- Developed multiple real-time trading platforms with live market data streams (WebSockets) using React and Redux.
- Integrated trading APIs and execution flows into frontend systems.
- Worked closely with backend teams on API contracts and data modeling.
- Optimized performance and scalability of server-rendered applications.

SIDE PROJECTS

Lead Full Stack Engineer

Pulsara (2023 – Present) — Vancouver, BC, Canada

- Built the first decentralized ecosystem on the Coreum blockchain, launched publicly in December 2023 — including AMM, Governance, Liquid Staking, a native DEX interface, Colosseum gaming, and a Sportsbet platform.
- Designed and shipped 20+ production smart contracts in Rust and CosmWasm covering DeFi primitives, gaming mechanics, and on-chain betting logic.
- Authored coreum-js, the recommended TypeScript/JavaScript library for the Coreum blockchain, with 224 weekly downloads and 318 npm dependents.
- Built and deployed the full platform stack independently — backend services in Go, frontend in React/TypeScript, and infrastructure on GCP — outside of work hours, consistently over 2+ years.

EDUCATION

RED Academy — Diploma in Web Development