

Shin Sakamoto *Senior Fullstack Blockchain Engineer*

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Profile

Senior Blockchain Developer with expertise in both Solidity and Rust for building secure, high-performance smart contracts across EVM-compatible and Rust-based blockchains. Over 7 years in blockchain, with a proven track record delivering scalable DeFi protocols, staking systems, and tokenomics architectures. Proficient in Solidity for EVM chains such as Ethereum and Harmony, and in Rust for Solana and Polkadot. Experienced in developing reflection-based reward models, vault staking, compounding logic, and frontend integration using Web3.js/Ethers.js. Committed to security, sustainability, and creating user-friendly DeFi applications that drive real adoption.

Professional Experience

07/2023 – 10/2025

Senior Blockchain Engineer

Ajna Capital

- Architected and implemented a custom Layer 2 scalability solution for Solana while maintaining network security and decentralization principles.
- Engineered an optimistic rollup system with fraud-proof mechanisms that processed over 5,000 transactions per second, significantly outperforming base layer throughput during peak congestion periods.
- Developed a high-efficiency sequencer in Rust that batched transactions and stored rollup data on Celestia, achieving 99.9% uptime and sub-second finality for critical operations.
- Created off-chain scripts in TypeScript that seamlessly interacted with on-chain programs, enabling automated monitoring and execution of complex transaction sequences across the rollup system.
- Implemented comprehensive security protocols including multi-signature authorization and time-locked recovery mechanisms

04/2021 – 06/2023

Senior Blockchain Engineer

Onedex 

An ambitious blockchain startup on MultiversX, OneDex is driving the development of a cutting-edge DeFi protocol encompassing a decentralized exchange (DEX), bridge, and innovative trading platform.

- Played a pivotal role in spearheading the creation and development of the entire OneDex ecosystem, ensuring strategic alignment and technical excellence.
- Successfully led the team in establishing OneDex as a disruptive force in the blockchain industry, fostering innovation and driving market adoption.
- Single-handedly designed and built the decentralized exchange (DEX) from the ground up, ensuring its seamless integration into the OneDex platform.

04/2019 – 03/2021

Fullstack Blockchain Developer

Freelancer

- Designed and deployed 12+ production-ready Solidity smart contracts on Ethereum and BNB Smart Chain, including ERC-20, BEP-20, staking, vesting, and NFT contracts with royalty and auction features.
- Built full-stack decentralized applications with React, Next.js, and Web3.js/Ethers.js, turning Figma mockups into high-performance, responsive UIs.
- Developed backend systems using NestJS and Node.js, integrating contract event listeners, user portfolio APIs, and on-chain/off-chain data sync.
- Delivered a complete AMM-based DEX with swap logic, LP token mechanics, and front-end liquidity dashboard modeled after Uniswap V2.

- Built a comprehensive NFT marketplace with lazy minting, metadata pinning to IPFS, and creator royalty distribution.
- Engineered secure wallet and transaction utilities including nonce management, gas optimization and custom signing logic across EVM chains.
- Applied manual auditing and gas profiling techniques to ensure contract safety and upgradability, leveraging OpenZeppelin libraries, Hardhat, Truffle, and Remix for rigorous testing.
- Created reusable microservices and indexing pipelines using Express.js, MongoDB, and EVM RPCs to support dApp state management and analytics dashboards.

11/2016 – 03/2019

Fullstack Developer

VTI

VTI(Vietnam Telecom International) is one of the world's fastest-growing telecom operators, providing innovative telecom services and solutions.

- Developed into a seasoned fullstack web developer, following modern web architecture and best practices to deliver high-quality solutions.
- Involved in the development of over 10 web applications, including games, ecommerce platforms and SaaS products, demonstrating versatility and expertise.
- Mentored junior developers, promoting best practices such as test-driven development, and fostering a collaborative and high-performing development team.

Education

2012 – 2016

Bachelor's degree in Computer Science

Kyoto University

Skills

Blockchain & Smart Contract Skills — Rust, Solidity, Go, Substrate, Anchor, Hardhat/ Foundry, Metaplex, OpenZeppelin

Blockchain Architectures & Tools — Optimistic Rollups / zkRollups, Celestia, Subspace / Substrate, Tokenomics Design

Web3 Integration & dApp Development — Web3.js / Ethers.js, WAGMI / RainbowKit / WalletConnect, | React / Next.js / Vue.js, Tailwind CSS / Bootstrap

Backend & Infrastructure — NestJS / Node.js / Express.js, GraphQL / The Graph / SubQuery, AWS Lambda / EC2 / S3, Docker / GitHub Actions / Serverless Framework

Frontend Engineering — TypeScript / JavaScript, React, Next.js, Vue.js, Redux / Zustand, Three.js / WebGL, Anime.js

Storage — PostgreSQL, MongoDB, MySQL, Supabase