

# Ruven Tan

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## SUMMARY

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Experienced Blockchain Full Stack Developer with over 7 years of expertise in building decentralized applications (DApps) and blockchain-based solutions. Proficient in smart contract development (Solidity, Rust, Solana) and full-stack technologies including React.js, Next.js, TypeScript, Node.js, and Rust-based backend systems. Demonstrated expertise in decentralized finance (DeFi) protocols, NFTs, and blockchain platforms with a strong focus on security, scalability, and performance optimization. Experienced in integrating Web3 technologies, deploying contracts on Ethereum and Solana, and working with various wallets (MetaMask, Phantom, etc.). Adept at collaborating with cross-functional teams to deliver high-performance solutions in fast-paced environments.

## Technical Skill

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### Blockchain & Smart Contract Development

- **Languages:** Solidity, Rust (Anchor), Yul, Assembly
- **Blockchain Platforms:** Ethereum, Solana
- **Smart Contracts:** ERC20, ERC721, DeFi Protocols, AMM Logic, NFT Integration
- **Web3 Technologies:** Web3.js, Ethers.js, Wagmi, Moralis
- **Security:** OpenZeppelin, Proxy & Storage Patterns, Contract Upgradability, Access Control
- **Tools & Frameworks:** Hardhat, Truffle, Infura, Alchemy, Ganache, Anchor (Solana)

### Full Stack Development

- **Frontend:** React.js, Next.js, TypeScript, Redux, Web3.js, Bootstrap
- **Backend:** Node.js, Express.js, Django, GraphQL, Apollo, RESTful APIs
- **Databases:** MongoDB, PostgreSQL, MySQL
- **State Management:** Redux, Apollo Client

## WORK EXPERIENCE

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### Senior Software Engineer

Aug 2024 - Present

Nexuspro.io | United States

A cutting-edge centralized exchange (CEX) platform, I was responsible for architecting and developing secure, scalable, and high-performance features across the entire tech stack, including frontend (React,

TypeScript), backend (Node.js), and smart contract development (Solidity). My role involved both leadership and hands-on development in a fast-paced environment with a strong focus on security, efficiency, and user experience.

- **Led the architecture design** of the NexusPro.io CEX platform, focusing on scalability, security, and system optimization to ensure a high-performance user experience.
- **Spearheaded the development of secure smart contract frameworks**, implementing industry-standard security practices, including Proxy and Storage patterns to enhance contract security and future-proof the platform.
- **Integrated OpenZeppelin libraries** to strengthen the smart contract security logic, ensuring robust contract functionality with upgradable features and secure access control.
- **Designed and developed core platform functionalities**, enabling users to lend capital or provide liquidity, with the added ability to earn returns upon contract maturity. Facilitated borrowing features for users seeking liquidity.
- **Implemented Automated Market Maker (AMM)** logic, enabling smooth token exchanges between user tokens and the platform's native tokens to enhance liquidity and trading efficiency.
- Worked closely with the development team to ensure the secure, optimized deployment of lending contracts, adhering to best practices in smart contract development.
- Led the backend development using **Node.js**, ensuring a robust, scalable, and secure API layer for all platform interactions, including user account management, loan transactions, and smart contract integrations.
- Implemented **RESTful APIs** and real-time features using **WebSockets** for transaction updates, ensuring low-latency communication and instant feedback for users.
- Developed a highly responsive, user-friendly interface using **React.js** and **Redux** for state management, ensuring a seamless and intuitive user experience.
- Implemented **dynamic forms**, user dashboards, and interactive data visualizations to track investments, lending/borrowing activities, and returns.
- Optimized front-end performance and loading times using techniques such as code splitting, lazy loading, and server-side rendering (SSR) where applicable.

Web(Product): <https://nexuspro.io>

[Skill: Ethereum, Solidity, Web3.js, Ethers.js, Wagmi, CoinGecko API, Hardhat, Infura, React.js, TypeScript, Node.js, GraphQL, Apollo, MongoDB, Google Auth, Chai, Mocha]

## Web3 Full Stack Developer (Ethereum - DeFi)

*Sep 2023 - Jun 2024*

RociFi Labs | Unitedstates

Liquidity protocol that provides lending, borrowing function with liquidity provide using NFT and Oracle

- Designed the RociFi lending platform architecture and smart contract architecture from scratch focused on security and optimization.

- Suggested to use Proxy and Storage logic for smart contract security improvement and integrated openzeppelin to smart contract for security logic myself.
- Made this platform let users can lend money or liquidity provide to the platform and get the income after the contract finish and also can borrow money from the platform when they need it.
- Implemented AMM logic for exchanging between the user token and company token.
- Took part in smart contract development with contract developers for lending platform contract and developed NFT based User wallet score generate offchain application using Oracle myself and integrate this into lending platform.

Web(Product): <https://www.roci.fi>

[Skill: Ethereum, Solidity, Web3.js, Ethers.js, Moralis, Wagmi, Truffle, Infura, React.js, TypeScript, Node.js, GraphQL, MongoDB, Chai, Mocha ]

## Web3 Developer (Solana - DApp)

*Oct 2022 - Aug 2023*

Synesis One | Unitedstates

Blockchain Data yield farming and staking platform and NFT Marketplace platform

- Designed and develop the infrastructure and well-formed project of data yield farming DApp and NFT marketplace DApp from scratch.
- Developed a decentralized application (DApp) enabling users to stake SNS tokens (Solana-based) to engage in a Q&A ecosystem.
- Implemented a functionality allowing users to post questions, provide answers, and validate others' answers.
- Designed and integrated a reward system, where users earned SNS tokens for validating answers, incentivizing active participation.
- Aggregated validated questions and answers to be provided to an AI company as training data, supporting machine learning model development.
- Optimized the staking and validation mechanisms, ensuring seamless interaction and rewarding of users within the platform.
- Page 2 of 5- In the NFT marketplace DApp, made able to users can upload their collections via NFT minting and airdrop and also can buy the others collections via sales logic of marketplace.
- Developed the smart contract of each platforms using Solana Anchor (Rust) mainly focused on code & storage optimization for less gas fee.
- Developed the frontend using React.js / Typescript + Web3.js integrating phantom wallet connection.

Web(Company): <https://www.sysnesis.one>

Web(Product): <https://www.kanon.exchange>

[Skill: Solana, Rust Anchor, Smart Contracts, React.js, TypeScript, Web3.js, Wallet Integration, Solana Smart Contract, Storage Optimization, Gas Fee Reduction, Git, Docker ]

## **Web3 Full Stack Developer (Solidity - DeFi)**

*Aug 2020 - Jun 2022*

Swell Labs | Australia

Decentralized liquid ETH staking protocol that is built for stakers, node operators, and the Ethereum ecosystem

- Planned the smart contracts structure with separated contracts and Escrow contracts for security and audit and developed mainly part in smart contracts using Hardhat environment in Solidity.
- Made this platform let users can register own node operator with their idea and user can stake and confirm to their favorite node operator in the list.
- Developed the smart contracts for swETH token (company token) based on ERC20 and swNFT token(NFT token) based on ERC721 and deployed into 3 different networks and connect contract using Infura and Alchemy node.
- Used Proxy and Storage logic for smart contract security improvement and integrated openzeppelin to smart contract for security logic myself.
- Implemented swNFT contract to upgradable and pausable for maintence and extend contract.
- And integrate contracts into FE using Web3.js and wallet(Metamask / Coinbase / Fortmatic / Portis) connection into React.js based project.
- Developed FE using React.js / Typescript and used Apollo GraphQL Server for Backend and used PostgreSQL.

Web(Company): <https://www.swellnetwork.io>

Web(Product): <https://www.app.swellnetwork.io>

[Skill: Ethereum, Solidity, Smart Contracts, React.js, TypeScript, Node.js, GraphQL, Apollo, PostgreSQL]

## **Web Developer (Full Stack)**

*Sep 2018 - Mar 2020*

Intuit | Singapore

- Developed a dynamic and responsive frontend using React.js and Next.js, ensuring optimal user experience across various devices.
- Developed an event management platform with a focus on backend services using PHP and Node.js, ensuring robust and scalable solutions for event scheduling, registration, and payments.
- Created a responsive frontend with React and Bootstrap, delivering a seamless user experience across various devices.
- Built and maintained RESTful APIs using PHP and Node.js, enabling efficient data exchange and interaction with the frontend.
- Integrated payment gateways and email notification services to enhance the platform's functionality and user engagement.
- Utilized MySQL and MongoDB for data storage, ensuring reliable and optimized database interactions.

- Implemented security measures such as SSL/TLS encryption and secure coding practices to protect user data.
- Developed unit tests with PHPUnit and Mocha to ensure the reliability and accuracy of backend services.
- Participated in code reviews and collaborative development practices, contributing to the continuous improvement of the platform.
- Worked closely with UX/UI designers to ensure the frontend met the highest standards of usability and accessibility.

Web: <https://www.intuit.com>

[Skill: React.js, Next.js, Node.js, BootStrap, PHP, Laravel, Stripe, MySQL, Unit Testing, PHPUnit, Mocha, Postman, Docker, SSL/TLS Encryption, Figma ]

## EDUCATION

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### Bachelor's Degree in Computer Science

*Sep 2014- May 2018*

**The Hong Kong Univeristy of Science and Technology** | Hong Kong

At The Hong Kong University of Science and Technology, I achieved significant academic milestones, graduating with a focus on developing critical skills in software development and engineering. My coursework included hands-on projects that enhanced my technical proficiency and collaborative abilities. I actively participated in university-sponsored hackathons and coding competitions, which allowed me to apply my knowledge in real-world scenarios.

## Certifications

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🛡 [Advanced Solidity: Understanding and Optimizing Gas Costs](#)

🛡 [Advanced Solidity: Yul and Assembly](#)