Toni Cain

Rust / Solana Engineer

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Seasoned Rust based Solana Blockchain Engineer with almost 4 years of experience and well-experienced Rust Backend Engineer with 6 years of strong expertise in Rust. Proficient in writing clean, efficient, and secure code in Rust, and skilled in architecting and deploying complex smart contracts and the associated frontend integrations. Proven ability to collaborate with cross-functional teams to deliver high-quality solutions that meet project requirements and drive business goals.

Work Experience

Lead Solana Blockchain Engineer | Full time

Molana Pte.Ltd

10/2023 - 03/2024

Web site : https://defi.molana.finance/   https://www.molana.finance/

- Led Smart Contract Lifecycle Improvements resulting in about 12% decrease in deployment time, streamlining processes and increasing team efficiency.
- Led internal security audit with Halborn, leading to an increase in overall system security and resilience for the project.
- Managed Github Version Control for projects, keeping codebase organized and conflict-free.
- Designed Blockchain Training Tasks to improve overall productivity and tech skill level of the team.
- Managed Jira Tickets/Agile Dev Cycle for projects, ensuring organized development process, leading to increased productivity and timely project delivery.
- Pointed teammates to the right direction every day to save development time and make them on the same page.

Senior Solana Blockchain Engineer | Full-time

Molana Pte.Ltd

07/2022 - 09/2023

- Refactored Molana Trading Contract with Anchor framework and Versioned Transaction to make the project dynamic, secure, and forward-compatible.
- Designed Tokenomics & Token Vesting Scenario to ensure success and sustainability of the project.
- Conducted deep dive Unit Testing & Integration Testing, leading to about 90% reduction in bug incidents and improved overall system stability.
- Implemented Pyth & Powerful custom price Oracle for accuracy and performance of the project.
- Enabled seamless integration of fiat payments (Payoneer) with the blockchain, leading to about 30% surge a month in user engagement and improving user experience, positively impacting business growth.
- Developed Molana Trading Contract, resulting in about 25% profit increase of the company on average.
- Implemented Yield Farming, Compounding, increasing user engagement and liquidity in the platform.

Fullstack Blockchain Developer | Full-time

Molana Team

01/2022 - 06/2022

- Implemented Token Swap, Staking, Bond contracts using Rust, communicated with clients to provide full

requirements.

- Developed Token Launchpad, NFT Utility Contracts resulting in about 2500+ increase a week in user engagement and platform usage.
- Implemented betting, gaming contracts providing high transaction speed, leading to higher revenue and improved user satisfaction.
- Built Solana ⇄ EVM Bridge, improving cross-chain liquidity and expanding user accessibility.
- Took part in Ethereum DEXs project and developed smart contracts for token swaps, liquidity pool management using Solidity.
- Developed smart contract for Ethereum NFT marketplace and integrated with frontend providing high efficiency and user experience enhancement.

Fullstack Blockchain Developer | Full-time

XP Foundry (Playrooniverse)

08/2020 - 12/2021

Web site : https://www.playrooniverse.com/

- Developed customized NFT quest & stake-pool smart contact to overcome limitations of the original setup.
- Implemented merging NFTs and pNFTs to represent new game levels, resulting in about 15% user engagement increase by average.
- Completed Frontend integration with faster transaction processing and about 5% higher overall game performance.

Rust Backend Developer | Contract

Molana Team

09/2017 - 05/2020

- Focused on simplicity and small code to optimize backend application, reducing memory usage by 10 % and improving system responsiveness.
- Designed and implemented high-performance applications using Rust to create an efficient backend infrastructure, reducing application response time by about 7% and enhancing overall project reliability.
- Implemented SQL, MySQL and PostgreSQL databases to handle large-scale data.
- Utilized programming languages like JavaScript, Java, HTML/CSS, TypeScript, SQL, Python, and Go, NoSQL databases, Container Orchestration services including Docker and Kubernetes, and a variety of AWS tools and services

Education

Bachelor's degree in Computer and Information Sciences | Florida International University at Miami, FL, USA

August 2013 - August 2017

Relevant Coursework - Computer and Information sciences and support services

Skills

- **Smart Contract Engineering**: Rust, Anchor, Solana SDK, Solidity, Truffle, Hardhat
- **Frontend Integration**: TypeScript, React, Next, web3.js
- **DeFi**: Swap, Staking, Bond, Farming, Vesting, DEXs, Perpetuals, Leverage, Limit Order Book, Lending, Voting, Launchpad, Stable Coin, Oracle, Pyth
- **NFT**: Staking, pNFT, Candy Machine, cNFT, Gaming
- **Cross-Chain**: Bridge, Layer 0, Wormhole
- **Backend**: Rust, Java, Python, Go, NoSQL, MySQL, PostgreSQL, Docker, Kubernetes, AWS
- **Soft skills**: Collaborating, Critical thinking, Problem solving, Self-motivation, Think independently, Proactive, Detail-oriented