Edmundo Arias Ortiz

Blockchain Engineer & Auditor

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Skills

Analytical Thinking: Strong analytical skills with an approach in identifying, tracing and resolving complex issues.
Adaptability: Adaptable to protocols and staying current with evolving blockchain standards and innovations.
Collaboration: Engaged into team collaboration for concepts, audits and problem solving.
DAPP: Solidity, Yul, Foundry, Typescript, Hardhat, Certora, Halmos, Slither and Aderyn.
Client side: Nextjs, Wagmi, Viem, Wallet Connect, Alchemy RPC.

Work Experience

Blockchain Engineer, StakedotLink (Chainlink Labs) – NY, U.S   sept 2023 - sept 2024

Develop of stake.link protocol, the first-of-its-kind delegated liquid staking protocol which enables anyone to provide LINK collateral to and receive a share of rewards from the most reliable and performant Chainlink node operators.

- *Designed and implemented*: Priority Pool, Staking Pool, WithdrawPool for queuing stakes of ERC-20 tokens based on reSDL governance token priority.
- *Co-architected:* Automated Staking of token deposits, seamlessly integrated with Chainlink automation to allow stake-and-forget user experience.
- *Implemented:* Stake deposits into StakingPool for its distribution across strategies into Vaults to maximize yield.
- *Automated*: WithdrawalPool withdraws by avoiding strategy deallocation, instead leveraging queued tokens availability for auto-withdraws via keepers.
- *Participated*: Into rigorous internal audits, invariant testing and formal verification suites.
- Apply: smart contract security standards, ensuring robustness against vulnerabilities.
- Optimize: Gas cost reductions for strategies distributions and for automation transaction execution costs.
- Automate: Usage of Chainlink Keepers so as to allocate queued tokens into StakingPool across strategies..

Blockchain Developer, 1Cademy - Honor Education – MI, U.S   march 2023 - aug 2023

Creating educational content that focused on the fundamentals and advanced concepts of blockchain, with a specific emphasis on Ethereum for 1Cademy Blockchain Pathway.

- *Explored:* Consensus mechanism, network protocols, and infrastructure.
- *Presented:* An in-depth exploration of the Ethereum Virtual Machine (EVM).
- *Introduced:* Best practices for testing, auditing, manual code reviews and automated tools.
- *Taught:* Optimizations of EVM assembly language.

Software Engineer, 1Cademy - Honor Education **–** MI, U.S   aug 2020 - jan 2023

- *Architect Knowledge Graph:* Engineered a scalable and dynamic knowledge graph, organizing a structured progression from foundational 'parent' concepts to advanced 'child' topics.
- *Automate Learning Pathways:* Generation of pathways to optimize learning and teaching.
- *Real-Time Node Interaction*: Developed features for (editing, linking, submitting etc.) with an optimistic UI approach.
- *Leaderboard*: Design a model ranking for community activity stats.
- *High Volume Rendering:* Applied memoization, web workers and Rust-based WASM graph-drawer.
- *Real-time Synchronization:* Leveraged Firebase snapshots for seamless updates across shared graphs.
- *Graph Navigation:* Implemented "Scroll to Node" functionality to help users navigate across the graph.
- *Real Time Tutorial:* Inject an interactive tutorial in the graph, which teaches users how to use all graph features.

Education

University of San Antonio Abad – Cuz, P.E   aug 2014 - april 2020
School of Information and Systems
Bachelor of Engineering in Computer and Systems Engineering