Harry Law

SOFTWARE DEVELOPER

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PROFESSIONAL SUMMARY

Professional software developer with strong background in coding, debugging, and software design. Adept at collaborating within teams to deliver high-quality software solutions that meet evolving project needs. Skilled in various programming languages and frameworks, with focus on achieving impactful results and fostering reliable, adaptable workenvironment. Known for problem-solving abilities, effective communication, and results-driven approach to software development. With a strong foundation in computer science and willingness to learn and grow in dynamic environment, I bring foundational understanding of coding principles and software development processes, along with hands-on experience in C, Go and developing complex systems.

WORK HISTORY

Inclusive Finance - **PROTOCOL DEVELOPER (CONTRACTOR)**
Remote
11/2024 - 12/2024

- At Inclusive Finance, I was hired to build out a Request For Quote (RFQ) intent-based auction system for cross-chain swaps - enabling Market Makers (MMs) and solvers to bid on and settle users' orders in a cross-chain environment.
- Built out solidity smart contracts for the on-chain auction, encompassing all aspects of the auction including: whitelisting MMs/solvers, order propagation, bid submission, contract deployment and upgradability.
- Built off-chain components used to drive the auction and create a simulated environment for testing purposes.
- Created a cross-chain indexer to track orders throughout their lifetimes.
- Optimised solidity types for storage reductions as well as implemented custom encoding and decoding of these types for efficient usage on and off-chain.

Polymer Labs - **PROTOCOL DEVELOPER (CONTRACTOR)**
Remote
04/2024 - 08/2024

- The majority of my work at Polymer was focused on their custom IBC relayer, building out a hierarchical key derivation system, testing and CI as well as linting.
- Refactored the IBC relayer to use a producer/consumer model using many derived accounts to send its transactions.

WEBSITES, PORTFOLIOS, PROFILES

- https://github.com/h5law
- https://h5law.com

SKILLS

Software development

Programming

Problem-solving

Blockchain technology

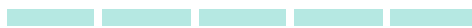Systems level programming

Performance optimization

Data structures and algorithms

Cross-platform development

C language

Go language

EDUCATION

01/2023
DURHAM UNIVERSITY
DURHAM

Certificate of Higher Education: Computer Science

- Improved the runtime of E2E testing times as well as the quality of the CI workflows for differing purposes, and debugged many issues in the staging environment during mainnet preparation.

Grove (Prev. Pocket Network Inc) - **PROTOCOL DEVELOPER**
Remote
12/2022 - 03/2024

- Experience working with Go, Native Layer Ones (L1s), Cosmos-SDK, Rollkit, Cryptographic Primitives and Networking.
- When building the native L1, I led the design of the CLI and RPC interface for the blockchain as well as the key-base for users to create accounts and use the network.
- Lead the design, architecture, and implementation of the Gateway actor. Encompassing the usage of Ring Signatures, Caching and Networking.
- Developed an in-house reactive programming framework of Observables and Channels for off-chain actors to subscribe and listen to on-chain events.
- Implemented new features core to the protocol's business logic, such as a Sparse Merkle Sum Trie to keep track of key-value-weight tuples. As well as novel proving mechanisms for deterministic proofs of membership, non-membership and closest distance for key-value (or key-value-sum) entries.