

# 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 - SOFTWARE 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 - SOFTWARE DEVELOPER (CONTRACTOR)

Remote

04/2024 - 08/2024

- The majority of my work at Polymer was focused on their custom IBC relay, building out a hierarchical key derivation system, testing and CI as well as linting.
- Refactored the IBC relay 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) - SOFTWARE 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.