Wen Zhan (Zion)

BLOCKCHAIN RESEARCHER · SMART CONTRACT DEVELOPER
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"In Crypto We Trust."

Education

KIT (Karlsruhe Institute of Technology) *Karlsruhe, Germany*

M.S. IN COMPUTER SCIENCE *Oct. 2018 - Oct. 2022*

- Focus on cryptography and theoretical computation
- Master thesis: Analysing Performance of Atomic Broadcast in the Asynchronous Setting

KIT (Karlsruhe Institute of Technology) *Karlsruhe, Germany*

FOUNDATION COURSE: GERMAN LANGUAGE *Oct. 2017 - Oct. 2018*

- Achieved German language level: DSH-2 (B2-C1 level)

UESTC (University of Electronic Science and Technology of China) *Chengdu, China*

B.S. IN NETWORK ENGINEERING *Sep. 2013 - Jun. 2017*

- Eligible for graduate school without examinations

Skills

Dev Tool	GitHub, GitLab, Cursor/Copilot/ChatGPT
Smart Contract	Solana/Anchor, Squads, Solidity, Foundry, Hardhat, Open Zeppelin, Gnosis Safe, Tenderly
Blockchain	Bitcoin, Ethereum, OP Stack, Solana, Ethersjs, Web3js, Solana/Web3js
Languages	English, German, Chinese

Experience

Orderly Network *Karlsruhe, Germany*

BLOCKCHAIN RESEARCHER · SMART CONTRACT DEVELOPER *Nov. 2022 - Present*

- Develop and maintain the ORDER token in native ERC20 on Ethereum and its OFT version on EVM L2s (Arbitrum, Base, Optimism, etc.) and Solana
- Develop and maintain the Vault program on Solana to guard user's assets without custodian, and connected with Orderly chain through Layerzero Endpoint.
- Maintain the Orderly L2 mainnet and its testnet based on OP Stack with Conduit team.
- Connect Orderly L2 with Solana, Arbitrum, Base, Optimism and other chains through Layerzero protocol.
- Deployed Safe contracts (version 1.3.0) on Orderly L2 to enable Multisig functionalities.
- Define and implement Wallet Authentication based on EIP-712 typed message.
- Design the operation flow for Orderly users and implement the operations for Deposit, and Withdraw.
- Help to develop the Vault contract and the Ledger contract to enable onchain deposit and withdrawal flow, and integrated with Layerzero.

Poly Network *Shanghai, China*

BLOCKCHAIN RESEARCH INTERNSHIP *Dec. 2020 – Nov 2021*

- Researched the cryptographic foundation: ECDSA key-pair generation, signature verification, hash computation.
- Figured out how BIP-39 works to generate private keys out of Mnemonic and its security guarantee.
- Understood how PoW mechanism achieves consensus in an asynchronous and permissionless network.
- Researched the Merkle tree data structure and how to prove the inclusion of Bitcoin transaction.
- Researched how the script system works to validate UTXO transfer and guarantee the ownership of Bitcoin.
- Participated in Poly Network exploit incident calming and service recovery