

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.
- Design the rebalance system between different chains through Circle's [CCTP protocol](#).

Poly Network

Shanghai, China

BLOCKCHAIN RESEARCH INTERNSHIP

Dec. 2020 - Nov 2021

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