

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

- Studied 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, VS Code, Docker

Smart Contract Solidity, Foundry, Hardhat, Open Zeppelin, Gnosis Safe, Tenderly

Blockchain Bitcoin, Ethereum, OP Stack, Ethersjs, Web3js, Web3Onboard, WalletConnect

Front End React, Next.js

Languages English, German, Chinese

Experience

Orderly Network

Karlsruhe, Germany

BLOCKCHAIN RESEARCHER · SMART CONTRACT DEVELOPER

Nov. 2022 - Present

- Researched the consensus mechanism Nightshade of the NEAR protocol and its asynchronous transaction system, and investigated the NEAR account model.
- Researched and tested the Cross-Chain solutions: LayerZero, Poly Network, CCIP of Chainlink and CCTP of Circle.
- Defined and implemented Wallet Authentication based on EIP-712 typed message.
- Implemented the Orderly account system and designed the user operations flow.
- Developed the Vault contract and the Ledger contracts to enable onchain deposit and withdrawal, and integrated with cross-chain contracts.
- Deployed a Subnet with 4 nodes using Avalanche Subnet framework for test purpose.
- Deployed Orderly L2 blockchain mainnet and testnet on top of OP Stack.
- Connected Orderly L2 with OP, Arbitrum and Polygon PoS using Layerzero Endpoint contract.
- Deployed Safe contracts on Orderly L2 to enable Multisig functionalities.

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