

Zhiwen Huang

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Summary

Software engineer with expertise in blockchain and full-stack development. Proven track record of delivering impactful projects, including cryptocurrency exchanges, NFT marketplaces, decentralized applications, and AI-driven video processing platforms. Proficient in React, Angular, Express, Solidity, ERC-20/721 token standards, API development, MongoDB, and PostgreSQL.

Work Experience

Senior Software Engineer | UnrealVideo.ai

Dec 2024 - Present

- Built a full-stack AI video generation platform using React and Tailwind CSS for a modern, responsive UI
- Developed a backend system using Express that integrated MongoDB for data storage and authentication workflow
- Implemented features including automatic scene detection and manual trimming to streamline video editing
- Integrated a payment structure of tokens and used Stripe for payment in the scene detection application

Software Engineer III | Synapse

Mar 2022 - Jun 2022

- Deployed Ethereum nodes on AWS, enhancing blockchain transaction efficiency
- Built a multi-chain wallet for Ethereum, Solana, and Polygon, improving cross-platform trading
- Automated Polygon node deployment with Terraform, streamlining infrastructure setup
- Designed diagrams for Ethereum trading systems, improving team onboarding and company goals

Blockchain Engineer | Icered

Nov 2021 - Jan 2022

- Built a custom ERC-20 token with admin-controlled minting for mobile app integration
- Created Solidity smart contracts and backend for an NFT exchange, enabling lazy minting and message signing
- Linked NFT marketplace backend to Ethereum, storing transaction data and smart contract data to MongoDB
- Researched a centralized crypto exchange architecture for Bitcoin, Ethereum, and ERC-20 tokens
- Streamlined workflows using Docker for consistent dev and testing environments

Blockchain Engineer | Darwins

Jun 2021 - Nov 2021

- Built an ERC-721 contract with lazy minting for efficient user token rewards
- Migrated from layer-1 to layer-2, using batch transactions to improve scalability and reduce costs
- Built front-end and back-end for ERC-721 minting and transfers in a DeFi app
- Developed ERC-721 contracts for trading, including buy-sell, auction, and offer features
- Created Angular 2 front-end components and Hapi back-end API routes for blockchain integration
- Used MongoDB to manage blockchain interaction data and server updates
- Developed a smart contract for a generative art NFT collection of 7,000 unique images, now available on OpenSea

Backend Developer | Halo Platform

May 2018 - Aug 2018

- Implemented 0x Protocol to build a decentralized exchange for peer-to-peer trading
- Built a cryptocurrency exchange with Node.js, supporting Bitcoin, Ethereum, and Halo tokens
- Developed unit and integration tests with Mocha and Chai for reliable exchange functionality
- Managed app updates and features in an Agile/Scrum environment for rapid improvements

Projects

Dex

2024 - 2025

A decentralized exchange for Ethereum ERC-20 tokens

- Developed a Solidity smart contract using Truffle to securely handle ERC-20 token and Ether transfers
- Built a responsive React front-end that enables users to create, view, and manage trades directly on the blockchain
- Integrated wallet connectivity using Wagmi for seamless MetaMask and WalletConnect support

Delib

2016 - 2021

An Ethereum framework on npm designed to streamline DApp and smart contract development

- Built an Ethereum framework using Node.js for smart contract management and decentralized applications
- Implemented automatic Ethereum gas estimation for transactions by encoding constructor parameters
- Created comprehensive documentation for the framework, including detailed API references

Education

Codesmith

Los Angeles, CA

Software Engineering Immersive Program

Graduated: Sep 2016

Intensive program focused on advanced software engineering concepts and full-stack JavaScript development

University of Florida

Gainesville, FL

Bachelor of Science in Mechanical Engineering

Graduated: Dec 2014

Relevant Coursework: C++ Programming, Computer Programming for Engineers: MATLAB