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 generation platforms. Proficient in React, Angular, Solidity, ERC-20/721 token standards, API development, MongoDB, and PostgreSQL.

Work Experience

Software Engineer | Unreal Video AI
Dec 2024 - Present
- Architected a React application that allowed for AI generated videos and styled it with TailwindCSS
- Created a backend using Supabase and utilized it for the PostgreSQL database, authentication, and storage features
- Integrated an AI video model into the backend server that allowed for video generation

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 understanding

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
A decentralized exchange for Ethereum ERC-20 tokens
- Developed a Solidity smart contract with Truffle, optimizing gas fees for cost efficiency
- Built a React front-end to display real-time blockchain data and manage trades
- Integrated wallet support with Wagmi for seamless Metamask and WalletConnect login

Delib
2016 - 2021
An Ethereum framework 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, emphasizing hands-on projects and industry best practices.

University of Florida
Gainesville, FL
Bachelor of Science in Mechanical Engineering
Graduated: Dec 2014
Relevant Coursework: C++ Programming, Computer Programming for Engineers: MATLAB