Zhiwen Huang

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zhiwenh.com *(shows projects)* | Los Angeles, CA

Work Experience

Freelance Full-Stack Developer | Dapper Limo Lax   Mar 2025 - Present
- Designed and developed a fully responsive, production-ready website for a Los Angeles based luxury limo company
- Built the frontend using React and Tailwind CSS, emphasizing performance, mobile accessibility, and visual clarity
- Developed a backend server with Node.js, Express, and MongoDB to handle bookings, user settings, and admin settings
- Deployed the site on Vercel with a custom domain, serverless functions, optimizing load time and SEO performance

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 - Jul 2022
- Deployed and maintained Ethereum full nodes on AWS, improving blockchain access speed and transaction reliability
- Built a multi-chain custodial wallet supporting Ethereum, Solana, and Polygon, enabling seamless cross-chain asset management and trading
- Automated Polygon node infrastructure using Terraform, reducing setup time and improving deployment consistency
- Created system architecture diagrams for Ethereum trading flows, accelerating team onboarding and aligning cross-functional development

Blockchain Engineer | Icered   Nov 2021 - Feb 2022
- Developed a custom ERC-20 token with admin-signed minting, enabling secure token issuance based on mobile app activity
- Built Solidity smart contracts and a backend for a NFT exchange, supporting lazy minting and off-chain message signing
- Integrated the NFT marketplace with Ethereum, storing transactional and smart contract data in MongoDB for persistence and querying
- Researched and outlined a centralized crypto exchange architecture for Bitcoin, Ethereum, and ERC-20 tokens
- Used Docker to streamline backend workflows, ensuring consistent development and test environments across teams

Blockchain Engineer | Darwins   Jun 2021 - Nov 2021
- Developed an ERC-721 smart contract with lazy minting to efficiently deliver tokenized user rewards with reduced gas costs
- Led the migration from Layer-1 to Layer-2, implementing batch transactions to improve scalability and reduce fees
- Built full-stack features for ERC-721 minting and transfers within a DeFi application, including user dashboards
- Created smart contracts for NFT trading functionality, supporting buy-sell, auction, and offer mechanics for ERC-721 tokens
- Built reusable Angular 2 front-end components and designed Hapi.js API routes for seamless blockchain interactions
- Developed a generative art NFT smart contract for a 7,000-piece collection, now actively traded on OpenSea

Backend Developer | Halo Platform   May 2018 - Aug 2018
- Integrated the 0x Protocol to enable decentralized peer-to-peer trading of ERC-20 tokens
- Engineered a cryptocurrency exchange backend with Node.js, supporting Bitcoin, Ethereum, and Halo tokens
- Wrote robust unit and integration tests using Mocha and Chai, ensuring high reliability of core trading features
- Collaborated in an Agile/Scrum workflow to rapidly ship features and maintain application stability

Software Engineer | DeStore   Jun 2016 - Nov 2016
- Architected a decentralized, Ethereum blockchain based, peer to peer file storage platform that included trustless cryptocurrency exchange between its users
- Created and fixed security vulnerabilities in Solidity smart contracts that were used for distributed databases, handling file location routing, and payment among users
- Employed a MVC design pattern and an embedded MongoDB like database in the Electron client
- Executed distributed file transfer by creating file blocks linked with a Merkle DAG and transferred them using IPFS
- Set up unit and integration tests for smarts contracts and P2P network to allow for full coverage of the platform

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