

# Zhiwen Huang

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## Work Experience

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- Freelance Software 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

## Projects

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- Decentralized Exchange** 2024 - 2025
- 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
- Built an Ethereum framework that is on npm using Node.js for smart contract management and decentralized applications that has hundreds of users

## Education

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- 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