Zhiwen Huang

(562) 213-7654 • zhiwen555@gmail.com
linkedin.com/in/zhiwenhuang0
github.com/zhiwenh

Experience

Synapse | **Software Engineer III** | *Financial platform*   *Mar 2022- Jun 2022*
- Created an Ethereum Geth node on AWS for company financial applications
- Developed an Ethereum custodial wallet for Ethereum, Solana, and Polygon
- Worked on a terraform script for a Polygon node on AWS

Icered | **Blockchain Engineer** | *Social app metaverse that incorporates blockchains*   *Nov 2021 - Jan 2022*
- Developed a token that only allows the use of an admin signature to mint tokens
- Created the smart contracts and backend for a NFT exchange that had users sign messages to list their NFTs and that allowed lazy minting
- Researched the creation of a centralized crypto exchange for Bitcoin, Ethereum, and Icered tokens

Darwins | **Blockchain Engineer** | *Darwins builds applications connecting people to Web3*   *Jun 2021 - Nov 2021*
- Worked on proof reading a decentralized financial application smart contract that invested tokens into people to have them grow over time
- Created an ERC721 smart contract implementation for user rewards with a method to lazy mint the tokens to be redeemed at a later date
- Developed the frontend and backend for the features of minting and transferring ERC721 tokens in a decentralized finance application
- Worked on a way to transition the smart contract system into a layer-2
- Developed a decentralized ERC721 buy sell smart contract, auction smart contract, and offer smart contract and also developed a centralized version of those contracts
- Worked on Angular 2 frontend components and also worked on a backend with Typescript that used Hapi to create API routes for the frontend to call
- Created a generative NFT smart contract using the ERC721 implementation that has 7000 unique NFT images

Halo Platform | **Backend Developer** | *Platform for cryptocurrency management and apps*   *May 2018 - Aug 2018*
- Helped with a cryptocurrency exchange using Node.js that traded Bitcoin, Ethereum, and Halo
- Created unit and integration tests using Mocha Chai for all the methods and functions in a cryptocurrency exchange
- Performed application updates with an Agile and Scrum methodology for fast software iterations

Florida Biologix | Lab Technician | *Creates complex biological products*   *March 2015 – August 2015*
- Involved in the upstream manufacturing of viral vectors for use in clinical trials using up to 400L of suspension cells in the cleanrooms of a cGMP facility
- Organized and implemented the addition of external air flow meters to the company's cleanroom bioreactors for process verification in the production runs
- Wrote and edited standard operating procedures and production batch records for new processes and equipment

Zhang's Car Repair | **Auto Mechanic** | *Car repair shop*   *December 2014 – March 2015*
- Performed basic auto maintenance tasks and fixed vehicles
- Scrapped a Toyota Camry, judged the reusability of parts, and installed them in other cars
- Gained fundamental knowledge of automotive machinery with hands on experience

Old McDonalds' Roofing Inc. | **Roofer** | *Roofing company*   *May 2010 – September 2015*
- Performed all aspects of roofing installation mainly at residential sites
- Loaded and unloaded trucks as well as managed delivery of tools, supplies and equipment to meet daily job site

Szechuan Palace | **Cashier/Host** | *Chinese restaurant*   *May 2012 – December 2014*
- Managed daily money inventory and handled money for customers
- Trained new hires on point of sale software, safety procedure, proper food handling, and restaurant protocols
- Coordinated managerial duties such as recruiting, customer relations, maintaining restaurant inventory, and advertising

Projects

Personal Website | *Personal website*   *2024*
- Used React to create components to write text in. Created components from project list, work experience list, blockchain experience list, and education list
- Created a nav bar that becomes a hamburger menu logo when the window small in width, and that shows all the links in the website when the website window has a big width
- Created a backend using Express.js that uses the built React website

Delib | *Ethereum framework for DApps and smart contract management*   *2016 - 2021*
- Constructed an Ethereum framework that allows developers flexibility when developing decentralized apps and to interact with smart contracts via the command line
- Executed automatic Ethereum transaction gas estimates by encoding constructor parameters in contract deployment and creating custom contract instances for method calls

League of Legends Cooldown Tracker | *IOS/Android app that tracks timers in League of Legends*   *2019*
- Utilized React Native to effectively manage the state changes and prop transfer needed for configuring the options of over 30 timers per session
- Developed a UI that allows users to perform easy timer actions and to adjust abilities levels and cooldowns
- Created a backend using Heroku for League of Legends version updates and API calls for API key security

Google Music Visualizer | *Chrome extension - Audio visualizer for Google Play Music*   *2016 - 2019*
- Converted an audio stream into frequency domain by using the Web Audio API and Fast Fourier transforms
- Made visually pleasing color themes for the visualizer bars by using d3.js
- Responded to user feedback by adding in new features such as local storage of settings and performed bug fixes resulting from Google Play Music website changes

Devchain | *Ethereum private blockchain creator and development geth node*   *2016 - 2018*
- Developed a command tool that abstracts away the setup needed to configure and link up a genesis file when initializing private Ethereum blockchains with geth
- Created a development geth environment by preloading in a Javascript file that creates Ethereum accounts, allocates them with Ether, contains console helper methods, and auto mines for pending transactions

Destore | *Secure decentralized file storage and hosting platform*   *2016*
- Architected using Node.js 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

Sip | *Web app that generates Gulp tasks and Webpack configurations*   *2016*
- Implemented the Angular Ace in-browser text editor to display user-specified build tasks in real-time
- Created Gulp and Webpack build tasks in a development environment to test their functionality for users
- Wrote unit tests using Karma and Jasmine assertions to achieve full coverage of Angular code

Technical Skills

Strong: JavaScript, Node.js, React, React Native, Express, jQuery, Angular, Angular 2, Python, Blockchain, Ethereum, Solidity, web3.js, ethers.js, IPFS, MongoDB, Gulp, TDD, HTML, CSS, SASS, Git, d3.js
Experienced: Ruby, Django, Redux, D3, PostgreSQL, WebSockets, WebRTC, Electron, Webpack, Mocha, Linux

Education

Codesmith   *Los Angeles, CA*
Software Engineering Immersive Program   *September 2016*
Codesmith teaches you software engineering and full stack Javascript development.

University of Florida   *Gainesville, FL*
Bachelor of Science in Mechanical Engineering   *December 2014*