

Zhiwen Huang

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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

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

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

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

Software Engineering Immersive Program

Codesmith teaches you software engineering and full stack Javascript development.

Los Angeles, CA

September 2016

University of Florida

Bachelor of Science in Mechanical Engineering

Gainesville, FL

December 2014