

MATTHEW ZENG

SMART CONTRACT DEVELOPER & FRONTEND DEVELOPER

SUMMARY / OBJECTIVES / PROFILE

Senior Blockchain software engineer specializing in decentralized finance. Work experiences with IT startups for over a decade, helping to build technology-based businesses from the group up.

WORK EXPERIENCE

SMART CONTRACT DEVELOPER

Upstate Interactive — 2021.09 – 2022.03

Achievements:

- Refactored old truffle project with Hardhat.
- Implemented Chainlink external adapter.
- Worked for NFT project based on ERC-721 and ERC-1155

Technologies:

Ethereum, Smart Contract, Solidity, Hardhat, Truffle, Ethers.js, Web3.js, JavaScript, ERC-721, ERC-1155, Chainlink.

SMART CONTRACT DEVELOPER

Plexus — 2021.06 – 2021.09

Achievements:

- Implemented upgradeable smart contract with the proxy pattern.
- Implemented logic for slippage before swap.
- Implemented automatic Etherscan contract verification with hardhat-etherscan.
- Updated ERC20 logic to use the SafeERC20,
- Implemented wrapper logic for Uniswap v3,
- Implemented price oracle based on Uniswap v2.

Technologies:

Ethereum, Smart Contract, Solidity, Hardhat, Truffle, ethers.js, web3.js, JavaScript, ERC-20, Uniswap, Liquidity provider, Liquidity Mining

SENIOR FULL STACK BLOCKCHAIN ENGINEER

FireDiary — 2020.03 – 2021.05

Achievements:

- Architected the payment and collateral system on the Ethereum blockchain,
- Developed and deployed Solidity contracts on the Ethereum blockchain using Truffle and OpenZeppelin,
- And used Web3.js to publish and execute contracts, RPC calls on the test, and main networks,
- Administrated full Ethereum, BTC, and Altcoin nodes in the local and production environment using AWS, Terraform, and Docker (ECS),
- Audited a complex Node.js React/Redux web application to identify security concerns and performance issues,
- Developed signal and trading bots using cryptocurrency exchange APIs in Node.js,
- Integrate CI/CD in AWS with Github actions and Terraform,

PERSONAL DETAILS

Hong Kong

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PROFESSIONAL SKILLS

Proficient with:

Smart Contract,
Solidity,
Blockchain,
Hardhat,
Truffle,
Ethers.js
Web3,
JavaScript,
TypeScript,
React,
Node.js
Github,
Linux,
Ruby on Rails,
MySQL,
Vue.js
PostgreSQL,
MongoDB,
Redis,
Amazon Web Service,
GraphQL,
REST,
AMQP,
CI / CD
Terraform
Serverless,
Docker,
Scrum,
Teamwork

LANGUAGES

English

Advanced: speaking, reading,
Intermediate: writing

Chinese

Advanced: speaking, reading
Intermediate: writing

- Developed mockup with Ruby on Rails for funding

Technologies:

React, Node.js, Ethereum, Blockchain, Solidity, Smart Contract, Web3.js, CI/CD, Terraform, AWS, Ruby on Rails

SMART CONTRACT DEVELOPER

Crowdbotics — 2018.05 – 2020.02

Achievements:

- Worked as a full-stack developer in a team for a new media sharing platform of FireDiary,
- Built platform based on react-rails project and GraphQL,
- Took the initiative to reduce technical debt by refactoring major parts of the existing codebase, greatly reducing the cost of maintenance and future development,
- Build an OAuth login system for head out and integrated one-click login microservice using all the major social networks,
- Scaled APIs to handle up to 100,000 requests per minute and Docker-based deployment for quick horizontal scaling,
- Refracted database operation with Sequelize ORM and turned it, which resulted in managing connection pools with almost 0 errors and dropping connections.

Technologies:

React, Ruby on Rails, JavaScript, GraphQL, Apollo, PostgreSQL, Docker

SENIOR FULL STACK JAVASCRIPT DEVELOPER

Brightsave — 2017.01 – 2018.06

Achievements:

- Architected a complete end-to-end microservice-based scalable and high-availability front-end and back-end solution based on AWS services and leveraging open source technologies like React and Node.js,
- Designed and developed several serverless GraphQL APIs with Node.js, leveraging multiple AWS services (including Cognito, Lambda, API Gateway, DynamoDB and Aurora) to serve as a back-end for multiple client apps,
- Designed and developed several responsive PWA client apps using a React/Redux/Saga stack, leveraging AWS Cognito for user authentication and authorization, including authorization and access to the aforementioned GraphQL APIs,
- Developed an entire CI/CD pipeline consisting of a complex orchestration of multiple AWS services (including Lambda, API Gateway, DynamoDB, and Aurora) to build, test, and used AWS Cloudformation for the deployment with a few configurations.

Technologies:

Amazon Web Services (AWS), DevOps, GraphQL, CodePipeline, Amazon Aurora, AWS DynamoDB, AWS Lambda, Cloudformation, Serverless, AWS, React, Node.js, JavaScript

FULL-STACK JAVASCRIPT DEVELOPER

Freelancer.com — 2015.10 – 2016.09

Achievements:

- Developed and maintained websites using html, css and jquery,
- .Structured and implemented Architecture of the database and write the

backend code using PHP,

- Maintained the website and improve website speed.

Technologies:

HTML, CSS, JQuery, Node, PHP, Codeigniter, Laravel, REST

EDUCATION

BACHELOR OF COMPUTER SCIENCE

Beijing Institute of Technology — 2011-2015