



Front-End Engineer

Ricky Jiang

Working Experiences

○ Memento Blockchain (2021/10 ~ 2022/12) [Singapore]

full-stack engineer

<https://mementoblockchain.com>

Responsibilities

- Developed dynamic and user-friendly front-end UI using Vue.js and Formantic-UI to interact with AWS APIs, blockchains, and user wallets.
- Created highly reusable Vue components to maintain consistency and improve coding efficiency.
- Involved in the development of AWS backends, including designing the DynamoDB database and Lambda functions to provide the RESTful APIs to the front-end UI
- Actively participated in code reviews, providing feedback and suggestions to improve code quality and maintainability.

Overall, my focus during my work experience was not only on delivering new features to help the product grow, but also on improving component **reusability, testing, and documentation**. I utilized various design methodologies, such as Atoms, and implemented techniques such as Higher Order Components and end-to-end testing with the Cypress framework. Additionally, I customized the CI/CD pipeline to execute tests and generate reports to keep the team informed of the results. Lastly, I assisted in creating clear documentation to onboard new team members quickly.

○ Tesseract.io (2020/07 ~ 2021/09) [Singapore]

front-end engineer

<http://tesseract.io>

Responsibilities

- Collaborated with cross-functional teams across different countries to plan, design, and develop new features for the web application.
- Developed and deployed highly scalable and performant web applications using React.js, and utilized RESTful APIs to create interactive frontend UI based on React.js.
- Upgraded the theme of user dashboard pages by leveraging React-Bootstrap.
- Conducted impact evaluation prior to development and provided technical support on emergent issues.

Before I joined the team, their focus was on quickly delivering new features rather than maintaining code quality and improving the user experience. This led to two primary issues: poor browser performance and an outdated and rough UI.

To address the first issue, I helped them upgrade their React version from v14 to v16. This allowed us to use the new `React.lazy()` feature, which enables the browser to download only the necessary resources from the server. Additionally, I utilized the tree shaking feature in webpack to remove any unused code. These efforts led to a significant decrease in the size of the main JavaScript bundle, from around 10mb to 1mb, greatly improving the application's loading time.

To address the second issue, I integrated React-bootstrap and we purchased a commercial bootstrap theme to provide a consistent look and feel throughout the application. With this approach, we were able to achieve a more modern and professional UI, improving the overall user experience.



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About Me

I am a highly creative and self-motivated individual with a passion for learning and working independently. My recent experience working with Singaporean companies has given me the opportunity to collaborate with global teams across different countries and time zones, while my most recent role with Memento blockchain team has exposed me to cutting-edge technologies in the crypto space.

Over my 8 years as a developer, I have always been open to trying new technologies in order to expand my abilities. I have experience in web design using AI tools and Figma, as well as developing Android apps with React Native. I have also worked on a project that uses AWS to host a website with APIs based on Node.js. As a senior frontend engineer, I focus on delivering high-quality code for large-scale products, implementing automation builds, performance, TypeScript, unit testing, end-to-end testing, and CI/CD.

Although I still have much to learn, my self-organizational skills and passion for my work enable me to solve problems with enthusiasm and efficiency.

○ Business Solutions and Outsourcing Inc (2018/11 ~ 2020/03) [Philippines]

front-end engineer

Responsibilities

- Optimizing web applications for maximum speed, scalability, and maintainability.
- Mentoring and guiding junior developers to improve their skills and knowledge.
- Ensuring that the frontend is fully responsive and compatible with various browsers and devices.

I took charge of implementing frontend automation through the integration of Webpack, and also spearheaded the overhaul of server-side rendered projects into single-page applications. These efforts led to a significant boost in development efficiency and enabled us to achieve pixel-perfect fidelity when translating design concepts into fully functional websites.

○ Qianbao Co., Ltd (2015/02 ~ 2018/11) [China]

front-end engineer

Responsibilities

- Assisting senior developers in developing, testing, and maintaining code for web applications.
- Developing responsive websites that work well on all devices and platforms.
- Collaborating with cross-functional teams to ensure the website design and user experience aligns with the company's goals

📦 Recent Professional Projects

○ Domani DAPP From Memento Blockchain (2021/10 ~ 2022/12)

full-stack engineer
<https://dapp.domani.finance>

DOMANI Dapp is a democratized crypto management protocol that allows you to invest in multiple assets cheaply and easily. It empowers everyone to easily create a digital-native fund that is professionally managed by qualified keyless PF managers. You can join the revolution and have the opportunity to invest in the best performing portfolios in crypto

Tech Stack

Vue.js Ethers.js Cypress Node.js AWS DynamoDB

Key Contribution

I was involved in both frontend and backend development, and I optimized the development process. With my skills, discipline, and planning, I am able to work independently and deliver high-quality results to the team.

Achievement

By leading the test-driven development and integrating the E2E test framework Cypress, I reduced the time spent on manual integration testing and enabled the dev team to focus on developing new features and improving code quality. Furthermore, my investigation and concise report helped the team make decisions more efficiently.

○ Tesseract.io (2020/07 ~ 2021/09)

front-end engineer
<https://www.tesseract.io>

Tesseract.io is an all-in-one platform for businesses that includes CRM, document generation & management, project management and accounting. It also offers a purpose-built solution for easy and secure asset & fund management. The team at Tesseract is driven by integrity to achieve excellence through creativity and constant innovation.

Tech Stack

React.js Redux React-Bootstrap SASS jQuery Webpack Python

Key Contribution

Designed and developed highly reusable React components to enhance consistency and improve code quality while analyzing low performance and lag issues during the operation of the App and providing solutions to make it faster to load and run smoothly.

Achievement

As the project was in its early stages and the business was complex, the code management was chaotic and large. Through my efforts, the optimized APP greatly enhanced the user experience, and in the later stages of the project, I was able to independently complete very complex interaction interface development and API integration work, my contributions helped the entire team to respond to customer needs faster.



Featured Personal Projects

○ Personal Portfolio Website (2023/03 ~ 2023/04)

<https://ricky-fn.github.io>

A beautiful portfolio website inspired by AI tools like **MidJourney** and **ChatGPT**. It is the first website that I designed and coded from the beginning to the end.

Tech Stack

React.js

Figma

MidJourney

ChatGPT

My Purpose

1. As a frontend engineer, I've always had a passion for developing exceptional and captivating websites. However, my design skills have posed a challenge. This project is an exciting experiment in converting AI art into a tangible, functional product.
2. Combining my creativity with my expertise in frontend engineering, I've created a stunning and interactive portfolio website that showcases my skills and experience. With its unique design and engaging features, my website is sure to grab the attention of potential employers.

Achievement

I successfully leveraged my professional skills to create a website with captivating scrolling animation by incorporating the latest AI technologies. This experience significantly enhanced my capacity to develop independent projects. This project serves as a prime example of my adeptness at problem-solving.

○ COVID-19 Visualizer (2020/05 ~ 2022/08)

<https://theworldcovid19.info>

An interactive COVID-19 (coronavirus) visualizer that highlights countries around the world based on the most recent cases.

Tech Stack

AWS

Serverless Framework

AmChart.js

React.js

TypeScript

My Purpose

1. Provide an intuitive and visually appealing way for users to understand the global impact of COVID-19 through data visualization.
2. Utilize TypeScript and React.js to develop a robust and scalable web application that can be easily adapted for future projects.
3. Enhance my skills in end-to-end testing by utilizing the Cypress framework to create a reliable and maintainable codebase.
4. Learn and practice AWS Serverless technology to host the website's static assets and API.

Achievement

Despite the complexity of the tech stack, especially the data visualization and Serverless, this project ignited my passion for creating engaging and interactive web interfaces. It also motivated me to expand my skill set to encompass both front and back-end development.

○ Turbine JavaScript Library (2019/03 ~ 2019/08)

<https://github.com/ricky-fn/turbine>

Turbine.js is a cutting-edge JavaScript library that was inspired by the concepts behind Vue.js. It offers a revolutionary way to merge JavaScript code and data with HTML tags, using templates that can dynamically update the UI as data changes. This implementation follows the popular MVVM design pattern.

Tech Stack:

JavaScript

RollUp

Himalaya

ES6

My Purpose

After discovering the ease and effectiveness of Vue.js in web development compared to my previous experience with jQuery-based projects, I was inspired to deepen my understanding of the differences between the two. In pursuit of this goal, I decided to start a new project from scratch.

Achievement

Despite juggling a full-time job and working on it in my spare time, I was able to successfully publish the Turbine.js library on NPM. The library is compatible with IE 8+, Firefox, Chrome, and Edge, and has a minuscule 33kb size after compression.