**Minghuan Cao**

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**SUMMARY**

* An engineer with 5 years of experience developing modern front-end applications using HTML5, CSS3, Bootstrap, jQuery, ES6, JSON, React, React Router, Redux, Next.js, Node.js, Webpack, TypeScript, JavaScript, etc.
* Experience in implementing component life-cycle architecture, store actions, using socket.io in React-Redux app to handle real time data, using React Router, Thunk Redux for API calls in React.
* Top-notch programming skills and in-depth knowledge of the MERN technology stack.
* Strong expertise in customizing CSS frameworks like Semantic UI, Material UI, Bootstrap in combination with other web technologies to build modern SPAs.
* Proven experience with the implementation of component life cycle architecture and store actions in React Redux applications to deal with real-time data.
* Adequate knowledge of relational database systems, Object Oriented Programming and web application development.
* Experienced in using back-end languages such as Ruby, Python, and also using the back-end frameworks such as Ruby on rails and Django.
* Working experience participating in mainstream project management workflow using Agile/Scrum or Waterfall methodologies.
* Fluency using Unit testing frameworks such as Jest,React-Testing-Library, Postman.
* Working experience using version control management tools such as Git.
* Familiarity with working on NoSQL databases such as MongoDB with Mongoose.
* Dedicated team player eager to analyze and share new knowledge with peer workers aiming for overall progress and improvement.
* Strong organizational skills to juggle multiple tasks within the constraints of timelines and budgets with business acumen.
* Excellent communication skills, interpersonal, strong architectural skills, self-motivation, and a very good team player.

**SKILLS**

**Languages:** JavaScript | TypeScript | Ruby | Python | HTML5 | CSS3

**Frameworks:** React.js | Redux | Ruby on Rails | Bootstrap | Django | Express.js | Mongoose | jQuery

**Databases/ Tools:** PostgreSQL | MongoDB | AWS | Node.js | Git | Heroku | Google Maps API | Webpack

**Knowledges:** Test-Driven Development | RSpec | Jest

**EXPERIENCE**

**Carbon Health San Francisco, California**

*Front-End Developer* December 2020 – May 2022

***Project: Canopy***

Canopy is an internal application and only Carbon Health employees have user accounts. Carbon Health patients may be asked to sign patient forms or provide information in Canopy during the Patient Registration process. Canopy is the most extensive peer network for healthcare providers to team up, communicate de-identified information, and look into uncommon ailments as well as innovative techniques to push the limits of the medical industry. Canopy enables its users to conveniently create cohorts and automatically run research quality reports, auto-generate methodology outputs, drag and drop into peer-reviewed papers, and explore as well as export data in auto-generated charts and figures with colleagues.

* Collaborated with and across Agile teams to design, develop, test, implement, and support technical solutions in front-end development tools and technologies.
* Created dynamic website pages for the web application utilizing React along with Material UI and upgraded its user experience both visually as well as functionally through developing responsive UI components using SASS and JavaScript.
* Collaborated with the IT Dev Team on integration of software components from diverse sources including locally developed, commercial, and freely available application frameworks and APIs.
* Created reusable React components for the web application through effective management of one- way data flow via Props along with states of class components.
* Designed and implemented responsive user interfaces for both the existing and newly developed web applications using backend Node.js frameworks/libraries and APIs .
* Created style components that could be reused and easily maintained across the application using SASS.
* Collaborated with back-end engineers to optimize existing and deprecate unnecessary API calls to improve efficacy and efficiency.
* Troubleshot developed software components and developed various reports for users as needed.
* Used Git to fulfill version control of the project and avoid unexpected conflicts of code commits.
* Worked with the Agile/Scrum development workflow to deliver regular updates regarding project progress to the management team.

**Bank of Southern California San Diego, California**

*Front-End Developer* December 2018 – July 2020

***Project: Mortgage Application Online Platform***

The Mortgage Application Online Platform helps the lender work with a borrower to complete a mortgage transaction. During this process, borrowers must submit various types of financial information and documentation to a mortgage lender, including tax returns, payment history, credit card information, and bank balances. Mortgage lenders use this information to determine the type of loan and the interest rate for which the borrower is eligible, which can be managed digitally through the platform to reduce time cost and thus improve efficiency. This application has multiple modules which are Application Management, Accounting Management, Customer Database, Fee Management, Investor Management, Loan Processing.

* Designed new web pages and new features while improving the performance for an existing web application using HTML5, CSS3, JavaScript etc.
* Worked closely with designers to take wireframes from conception to implementation and design and improve user interfaces.
* Converted production/design comps to quality HTML5/CSS3/JavaScript for various enterprise software products
* Used states, specs, props, and events in React to create interactive web components to generate seamless user experience.
* Created CSS templates that could be reused throughout the website by utilizing core CSS properties such as position, pseudo-elements, table, etc.
* Improved efficiency and productivity on the basis of common web standards and development methodologies.
* Created components and enriched UI libraries consisting of new website elements such as carousel, drag-and-drop, input area, drop-down menus, etc.
* Worked closely with the backend developers to ensure the integrity of the UI throughout the development lifecycle
* Used Node.js and Express to consume HTTP RESTful APIs and used Postman to run extensive testing on RESTful services.
* Performed unit-testing using test runners such as Jest and Enzyme.
* Managed version control throughout the development of the project by using Git.
* Engaged Agile/Scrum methodologies in the project management process by participating in daily stand-up meetings, seasonal prints, and other events.

**NextGen Healthcare Irvine, California**

*Front-End Developer* July 2017 – August 2018

***Project: Practice Management and Medical Billing Software – Scheduling Application***

The Practice Management and Medical Billing Software is an easy to learn, simple to use, sophisticated to help clients meet today’s practice management challenges. The flexible appointment-booking tool centralizes staff calendars for multiple practice locations and configures to meet the needs of individual physicians. Smooth and trouble-free scheduling services are fundamental to the overall success of the application, and to achieve the aim, modern front-end development technologies are involved, such as HTML5, CSS3, JavaScript, React, Redux, etc.

* Worked closely with UX designers, product managers, and engineering leadership to build best-of- class, delightful user experiences using the HTML5, CSS3, JavaScript, Node.js, etc.
* Took part in re-designing and re-configuring existing web applications using React, React Router, Redux, and Hooks in a large and organized codebase.
* Developed, styled, and tested reusable React components for completing user interface controls in the development of a single page application.
* Developed new features such as data visualization features to the existing web app by utilizing React, Redux, and Chart.js for the functionality of new modules.
* Implemented middleware such as Redux Thunk and Promise and original store.dispatch/getstate to cope with various action requirements, including asynchronous promise handling in components.
* Used SASS for website styling and created customizable CSS templates that could be reused across the application.
* Bundled JavaScript files with Webpack and used NPM to manage dependencies in efficiency.
* Developed server-side RESTful APIs using Express to handle back-end development.
* Fulfilled state maintenance and the pass-around of stateless data in components using Redux.
* Created reusable components and style sheets following sought UI standards and guidelines.
* Managed version control throughout the development process to ensure efficiency and effect using Git.
* Consistently participated in daily stand-up meetings, seasonal sprints, and other Agile/Scrum project management workflow.

**PERSONAL PROJECTS**

**leel** (Ruby on Rails, JavaScript, React, Redux, CSS3, Webpack, PostgreSQL) [Live](https://leels.herokuapp.com) **|** [Github](https://github.com/leocho1989/leel)

*A single-page full-stack clone of Tumblr, which is a microblog allows users to write and share blogs and search for information*

* Managed blog posting CRUD through custom transactional database operations using Active Record and PostgreSQL
* Harnessed the unidirectional state management of Redux to simplify React components and directly manage data for form inputs and form submissions
* Utilized AWS S3 and the Paperclip gem to implement user image uploads reducing server load and allowing for scalability of image services

**EDUCATION**

**Beijing University of Posts and Telecommunications Beijing, China**

*Major in Marketing* August 2011 – June 2015

**LANGUAGES**

**English, Chinese(Mandarin), Korean, Italian**