Michael Chang

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SUMMARY

- 5+ years of experiences in frontend web development, highly proficient in **ReactJS, HTML5, CSS3, SASS/SCSS, jQuery, JavaScript, Typescript, ES6**, etc.

- Solid understanding of essential React concepts such as **functional and class components, JSX, Virtual DOM, life cycle methods, higher order functions (HOCs), and custom hooks.**

- Skilled with **Python** and **Flask** for backend deployments.

- Adequate knowledge of **SQL** and used **Google Big Query (GCP)** to manage databases.

- In depth knowledge of React libraries such as **React router, Redux v5, Redux toolkit**, and **React Testing Library**.

- Working experience in using **Redux** for managing one global storage for states and using **React Router** to create **single page applications**.

- Hands on experiences in conducting **unit tests** by using **Jest** and **React Testing Library** and checking the coverage to maintain quality and consistency.

- Expertise in using **SASS/SCSS** to create **reusable style components** (nesting and mixins) and **Typescript** to ensure code consistency and flexibility.

- Familiar with **Agile and Scrum software development** and utilized **version control** management tools such as **Git** and **JIRA.**

- Proficient in building **RESTful APIs** and **responsive design** for web applications.

- Hands-on experience for using **Figma** and **MUI** to create similar React UI components such as Pagination, button, and dropdown.

- **Self-motivated fast learner, goal-oriented team player**, and **excellent communicator** that will get things done in time under pressure without losing quality.

TECHNICAL SKILLS

Programming Languages:	JavaScript, Typescript, Python, Java
Web Development:	HTML5, CSS3, jQuery, React, React Router, JSON, JSX, SASS/SCSS, Webpack, Babel, MUI, ES6 Redux, Bootstrap, Flask
Databases:	SQL, GCP
Version Control and Testing:	Git, Jest, React Testing Library, Storybook
Development Methodologies:	Agile/Scrum

PROFESSIONAL EXPERIENCE

New York Health+ Hospital.   *Oct 2021 - Aug 2022*
Full Stack Developer

- Worked on an application that collects data from doctors in a file or input forms and applies algorithms then output a file and graphs to make patient's data visible and easy to understand.
- Created reusable **React components** with **HTML** and **TSX** for frontend UI.
- Integrated application styling using **SCSS** and **Material-UI framework**.
- Used **Typescript** to ensure **code consistency** and **maintainability**
- Coordinated **React** with **Python Flask** to handle data in the backend.
- Applied clustering and classification algorithms to handle data processing in the backend.
- Performed **Unit tests** with **Jest** to unsure desire outputs are generated.

Full Rich   *Apr 2020 - Aug 2021*
Software Engineer

- Designed and developed a financial management application that gets data from multiple input forms and applies relative algorithms to calculate the risks and show multiple plans as outputs.
- Developed frontend applications by using **React**.
- Worked with backend engineers under **agile/scrum methodology** and actively participated in daily standups
- Used **React Router** to create **single-page application (SPA)** rendered on client side and keep the browser URL in sync with what's rendered on the page.
- Created **react.js reusable components**, used **JXS** with **ES6** to define components and **redux** as state management library.
- Dispatched the state by using **reducers**.
- Applied **unit testing** and **integrated testing** by using **Jest** and **React testing library**.

Chewy   *Jan 2019 - Feb 2020*
Frontend Developer

- Built well structured and responsive website that retrieve data from the company and show dashboards for analytic uses by **React**
- Utilized **redux and redux tool kit** to manage **react component states** for maintaining scalability and code readability.
- Built excellent reusable styles with **SCSS nesting and mixins.**
- Used **React-Router** to implement dynamic routing.
- Participated in daily **scrum meetings** and **seasonal sprints.**
- Guaranteed reliable collaboration with **Git Version control.**
- Tested each function with **Jest** and **React testing library**

Bose
Nov 2017 - Dec 2018

Frontend Developer

- Worked on a customer management application to show their account summary, order history, subscription list, and their personal profile. Customers can manage their shopping history and add/delete payment methods.
- Utilized modular structure within **React** application in which different functionalities within the application were divided into different modules.
- Experienced in developing responsive website with **HTML5, React, Bootstrap**, and **CSS media queries.**
- Developed a **single page** and cross-device/cross-browser web application for real-time product capacity utilizing **React router** and **JavaScript.**
- Reviewed customer feedback about debugging issues, fixed bugs with **HTML5, CSS3** and **JavaScript** codes and worked on resolving browser compatibility issues.
- Developed application code and unit testing with **Jest.**

Wayfair
Apr 2017 - Oct 2017

Software Engineer

- Built a fraud detection web application to display user's risk score and their shopping history by **HTML, CSS, React, and JavaScript.**
- Wrote **SQL** to extract the data from **Google Big Query (GCP)** and clean the data before import it into the model.
- Used **Python** to build **fraud detection models** with **LightGBM and decision tree methods** that achieve an **accuracy of 91%.**
- Utilized **Python Flask** to retrieve data from the backend to pass in the model and display the user information on the website.
- Used **webpack** and **babel** for bundling.
- Made responsive website by using **Bootstrap** and **CSS media queries**

PERSONAL PROJECTS

Web3 Blockchain App

- Used **Vite** to create **React** application than could connect your virtual wallet and send Etheruem to any address with a GIF or message.
- Used **Tailwind CSS f**or styling and **Solidity** to deal with smart contracts.

Credit Card Fraud Detection

- Compared 3 sampling techniques to mitigate class imbalance in the data along with 4 model architectures like ANN, CNN & auto encoders to predict credit card fraud using **Keras** in **Python**
- Incorporated hyper parameter tuning and 5-fold cross validation to achieve 95%+ accuracy and recall.