Tingchao Xu

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Experience

AutoDesk - San Jose - Front-End Developer   Jan 2022 – Feb 2024

- Developed Autodesk Digital Payment System and applications utilizing **React, Redux, Hooks, React-Query, SASS, CSS3, Bootstrap, Nodejs, Express, JavaScript, Typescript, ES6, Google Analytics, MySQL**, **MongoDB,, AEM, Restful API, GraphQL, Unit Test and Functional Test.**
- **Led 2 engineers to implement payment system's pages,** checkout, payment, address, summaries pages , invoice and product page.
- **Led 3 engineers** to develop multiple product web pages with UI/UX and responsive design using flex/grids, and media queries (different devices).
- **Improve the web performance by 30%** using useCallback, useMemo to reduce re-render and re-calculation, and using lazy loading, CDN, cache, reduce bundle size to optimize web response time.
- Developed GraphQL to efficiently retrieve comprehensive data from the database, including item information, user details, and media URLs, ensuring streamlined and optimized data querying.
- **Unit test** components and utilities with **Jest**, and conduct **Functional tests** for web flows and React components using the **Cypress** testing framework.
- **Mentored** 3+ engineers both on the tech side and career path.

LogDNA - Mountain View - Front-End Developer   Jan 2020 – Jan 2022

- Develop LogDNA websites application with **JavaScript, ES6, Vue.js, Vuex**, **SASS**, **CSS3**, **Nodejs**, **Express**, **Restful API**, **GraphQL, Webpack, MongoDB, Redis, Unit Test and Functional Test.**
- Developed a few core features such as **alarm system** (sms or email), **search and sort** logs from Redis, **data graph**, **payment system** (Stripe), **customer services chat** (Drift).
- **Led 3 engineers** to implement **Drift Chat** services into the application, effective communication and coordination across PD, UI/UX, Engineer, and Customer Service teams. Resulting in a **50% reduction in customer load**.
- **Led 3 engineers** to implement **Stripe payment** services by using **Stripe payment apis** to create **invoices, plans, subscriptions** and others for various use cases.
- Store and maintain user info in **MongoDB** with **Nodejs, Express**, **RestFul API**, and **mongoose**.
- Unit test components and utilities with **Jest**, and conduct functional tests for web flows and Vue components using the **Cypress** testing framework.
- **Mentored** 3+ engineers both on the tech side and career path.

Walmart Labs - Sunnyvale - Front-End Developer   Jun 2019 – Jan 2020

- Develop Sam's Club websites with **React, Redux**, **SASS**, **CSS3**, **Bootstrap**, **Nodejs**, **Express**, **JavaScript, ES6, Webpack, Microservices Architecture, Micro Front-End Architecture, Restful API** Responsible for login and registration page, two-factor authentication and reset password flows
- Responsible for membership page, join membership page and payment methods.

- Develop website use **Microservices Architecture**, reaching different data from different service, such as authorization service for login page, payment service for authorize payments and so on.
- Build communications between servers by using **GraphQL** to pass specific nested data.
- Unit Test website component by using **Mocha**, **Enzyme** and Functional test with **Nightwatch.js**

Apple - Sunnyvale - Front-End Developer   **Jul 2018 – Jun 2019**

- Develop several websites with **React, Redux**, **SASS**, **CSS3**, **Bootstrap**, **Nodejs**, **Express**, **JavaScript, ES6, JQuery, Webpack** and **Restful API**.
- **Led 2 engineers to** develop a new website from scratch, which can **dynamically custom website's** structures, themes, and contents layouts based on user settings.
- **Develop React Library** with **dynamic designing structure** and publish it on NPM.
- Design the website structure using **HOC** and **pure components** to build a website based on a json file.
- **Led 2 engineers to** develop a new website from twitter information display, getting the data from twitter api to show user activities, on multiple graphs and tables.
- Set up the back-end with **Node**.js and **Express** to react the data from server with react **socket**, and auto push the data to every linked client side.
- Use **Code-splitting** with **Webpack bundler** and **Dynamic Imports** code design for **Lazy-Loading** maximize website performance.
- Use **Restful API** to communicate with server at the back end to fetch life data every 5 seconds.

EDUCATION

B. S. Computer Science, University of Arizona, AZ   2013-2017

TECHNICAL SKILLS

JavaScript, TypeScript, React, **Redux**, **React**-**Native**, **Vue**, **Vuex**, **ES6**, **HTML**, **CSS3**, **Node.js**, **Express**, **MySQL**, **MongoDB**, **Redis,** **Restful API**, **GraphQL**, **Microservices Architecture**, **AWS**, and **Unit**/**Functional** Testing.