Qianhao Luo

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LANGUAGES / SKILLS

- JavaScript (ES6), HTML, CSS, Python, Node.js, C++, C, Git
- React, Redux, React Hooks, jQuery, Webpack, Babel, LESS/SCSS, Bootstrap, MongoDB, NPM, OOP

WORK EXPERIENCE

ClassTranscribe   **Champaign, IL**
Front End Engineer   Jan 2020 - Jun 2020

- Worked for front end part the website of a new education video-based application. Provided equitable access and support for non-native speaking students and students with disabilities (including motor, cognitive, vision, and hearing). The front-end of ClassTranscribe is built using **React** + **Redux** frame.
- Assisted the team to build the state managing tool that the generator of Provider and Store using **Redux-React**.
- Developed the new user guide for Watch page using **plain JavaScript**, and meanwhile created the tool of generating the user guide(**mk-guide**), which was published on the **NPM**.
- Redesigned the Search component in the Watch page by the Accordion of **Material UI** and established the corresponding data processing functions to filter and display the date.

FreeTitle   **Champaign, IL**
Front End Engineer   Feb 2020 – Mar 2020

- Assisted the team to build a website using **React** as front end and **Firebase** as backend
- Redesigned the UI of Profile page based on the Instagram
- Optimized and reconstructed the code of Profile page using **React Hooks**.

EDUCATION

University of Illinois at Urbana-Champaign: *M.S. in Agricultural & Biological Engineering*   Jan 2019 - Dec 2020
- Coursework: Data structure (A), Artificial Intelligence (A-), Data Mining (A-)   GPA: 3.65/4.0

Jiangsu University, China: *B.S. in Energy & Power Engineering*   Sep 2015 - Jan 2019
- Outstanding Graduate (Top 5%)   Rank: 3/59   GPA: 89.5/100

PROJECTS

NPM Packages: [mk-guide]   Oct 2019 - Present
Skills: *CSS, plain JavaScript, NPM*

- Built independently a library for developer quickly creating a new user guide using **plain JavaScript**, which solved the problem of the popular guide library like **Driver.js** and **Intro.js** that they cannot highlight fixed element. And the library in NPM and the Demo of mk-guide.
- Conducted the function of adding picture, head and description, and provided the options about custom button color, mouse over, and dark/light mode. Added the **Throttle function** to improve the performance when resizing and scrolling the screen.
- Implement the function that guide library will automatically focus on the next button, which provide the **keyboard accessibility** throughout and followed the Web Content Accessibility Guidelines (**WCAG**)
- Designed the user-friendly API which could be easily used by new user and learned the whole process of designing, publishing and maintaining open source library.

Blog by Express   Oct 2019 - Dec 2019
Skills: *Node.js, Express, MongoDB, HTML, CSS, JavaScript*

- Built a blog using the library of Express, which provided the function of adding and deleting the post.

Recipe Search Website   Oct 2019 - Dec 2019
Skills: *Webpack, Babel, Axios, Forkify-API, HTML, CSS, JavaScript*

- Built a website for user to search recipes by **plain JavaScript**
- User changes the serving of a certain recipe and gets the corresponding amount of ingredients
- Implemented likes button enables the user to add specific recipe into likes, which allow the user to quickly find it via localStorage when user reload the website next time

Games: Pig-Game, Budget Calculator   Sep 2019 - Oct 2019
Skills: *HTML, CSS, JavaScript*

- Programmed classical 1950s Pig Dice Game with two play modes
- Designed a single-page for the user to calculate the budget of each month for income, expenses and the proportion