Qian Tang

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CAREER OBJECTIVE

Seeking a position as a Front End Developer, as a new IT master graduate who is adaptable and can think independently, identify and solve problems. I am looking forward to utilizing my knowledge in application design and development to build a better and user-friendly web&mobile application.

Key Skills:

- Front end skills: JavaScript(ES6)+ HTML+ CSS
- Front end frameworks: React&React Native + Redux; JQuery; Vue.js + Vuex,D3.js
- Back end skills: Node.js + Express, REST API, JSON
- Database skill: MySQL/Firebase/MongoDB+Mongoose
- Version control tool: GitHub
- Other programming languages: Java, C, Swift
- IDE: VS Code, ATOM, Eclipse

My personal portfolio website: https://qiantangportfolio.herokuapp.com/
LinkedIn: https://www.linkedin.com/in/qian-tang-ict/
Github: https://github.com/qtang2

EDUCATION

The University of Melbourne
Master of Information of Technology (Computing)   2017 - 2019

Beijing Institute of Technology
Bachelor of Management Information System   2012 - 2016

INTERNSHIP

Developed Online Order App(React Native)   05/2020-08/2020

I built the prototype of an online order application based on a web-based ordering system. This application will display items that a user added before and a user can place an order through this app. And it will display all the statements, payments that a user generated before.

Key Contributions

- **Transform a web-based application to a mobile-based application:** Define the basic requirements by analyzing the web-application. Transform user interfaces from web-based to mobile-based by considering the special attributes of a mobile device

- **Use Firebase services**: Use Firebase services like authentication, real-time database, and storage at the start of this project to test basic functions of the application.

- **Connect API:** Display real data of items, payments, statements by connecting to the API provided by the company. And use the provided user API to verify a valid user.

Achievements

- **React&React Native skill:** Be more familiar with React and React Native, which are two very popular front-end development frameworks. Know how to efficiently use those frameworks in a real work environment.

PROJECTS

Real Time Chat Web Application(Vue + Vuex)   01/2021-12/2020
(link: https://qiantangvuerealtimechat.netlify.app/)

Achievements

- **Vue.js:** Using Vue 2 to develop a realtime chat application, efficiently using vue lifecycle hooks, computed properties,different components to logically build the whole application .

- **Vuex**: Use Vuex as state management tool, deeply understand the benefit of using central state management tool.

- **Firestore(Firebase):** Using firebase''s new feature, Firestore, as the back end database, utilize the authentication function provided by Firebase to ensure login security of my application.

Full Stack Projects(Node.js + Express + MongoDB+APIs)   09/2020-12/2020

Key Projects

- **Issue Tracker**: This project allows a user to create a new issue by specifying mandatory/optional information. And a user can see all issues of a project, update an issue, or delete an issue.(link: https://fcc-issuetracker-qian.glitch.me/)

- **Personal Library**: It allows a user to add a book as well as add comments to a book. A user can also read all comments of a book and delete a book/books.(link: https://fcc-personal-library-qian.qiantang.repl.co/)

- **American/British Translator**: This translator can translate American English to British English or vice versa, including time, special language usage.(link: https://fcc-american-british-english-translator-qian.qiantang.repl.co/)

- **Sudoku Solver**: This solver allows a user to input a sudoku string, where '.' stands for the empty grid, and give a solution to the puzzle. (link: https://fcct-sudoku-solver-3-qian.qiantang.repl.co/)

- **Metric/Imperial Converter**: This Metric/Imperial Converter allows a user to convert between Metric and Imperial unit, including "gal","l","mi","km","lbs","kg".(link:https://fcc-converter-qian.glitch.me/)

Achievements

- **Node.js:** Systematically learn HTML and also strengthen the understanding of HTML.

- **Express**: Create different Express app and use different middleware to improve the security and quality of the application.

- **MongDB&Mongoose:** Strengthen the understanding of how to use MongoDB services, and how to use Mongoose.

- **APIs**: Implement different APIs and use APIs to transfer data between the back end and front end

Front End- Web Projects(React.js + Redux)   08/2020-09/2020

Key Projects

- **A calculator website**: It allows users to calculate, and it is designed as an immediate execution calculator.(link: https://qiantangreactcalculator.netlify.app/)

- **A markdown previewer website**: It will render a user's inputted text in the editor window as HTML and display it in the preview window.(link: https://qiantangreactmarkdownpreviewer.netlify.app/)

- **A drum machine website**: A user can play different clips by clicking relative button or pressing relative keyboard.(link: https://qiantangreactdrummachine.netlify.app/)

- **A Pomodoro clock website**: It allows a user can do timing within 60 minutes.(link: https://qiantangreactpomodoroclock.netlify.app/)

- **A random quote machine website**: It can display random quote fetched from the Internet and user can click the button to update the quote and the UI.(link: https://qiantangreactrandomquotemachine.netlify.app/)

- **Different web page patterns:**
    a) A product landing page
    b) A tribute page introduces Winnie the Pooh
    c) A Technical Documentation web page about JS
    d) A survey web page that collects people's opinions

Achievements

- **HTML:** Systematically learn HTML and also strengthen the understanding of HTML.

- **CSS skill:** Learn the basics of CSS and appropriately apply the knowledge to all the projects I did.

- **Web Design Skill**: Get some new knowledge about web design, like web accessibility and responsive web design principles.

- **JaveScript**: Improve JavaScript skill by doing different web projects.

- **JQuery, Boostrap, React, Redux, Sass skills**: I improved my React, JQuery and Redux skill while I also learn new knowledge about Boostrap and Sass.

Mobile Projects(Android + IOS)   04/2018-08/2018

Key Projects

- **Emotion Recording App(Android)**: This project implemented an Android application which can rate user's current emotional state, do emotional self-diagnostic test, watch emotional awareness intervention videos, collect, and save user's data for analysis. And my contributions mainly includes:
    a) Design all the user interfaces, including login, register, two emotional model pages and video play page.
    b) Design and implement a local database for collecting user data by using MySQL, including design database structure, data type, and database service implementation.

- **Photo-sharing App(IOS)**: This project implemented an IOS photo-sharing application. This application allows users to log in or signs up. It allows users to upload a photo from a local device or to take a photo by using a camera and share it with other people, and a user can change the filter, brightness, contrast, and crop a photo at the same time. It also allows users to search other users by their id or name and add friends with other users,

allow users to update their own profile. And it allows a user to check other followed users' activities. And my contributions are listed bellow

a) Implement the basic login, log out, and register function for the system and store the user's basic information.

b) Using Firebase service as the database to store all the information in the system. Design the real-time database structure. Building the bridge between the database and the application, like writing queries to search for data from the database, send data to the app, and display the received data on the app.

Achievements

- **Java skill:** Gain solid knowledge about Android application design and implementation, including the front-end design and back-end design. Be more familiar with the process of Android application development.

- **Requirement Gathering:** The skill of requirement gathering has been improved by communicating with teammates and supervisors regularly and actively.

- **Swift skill:** Learn and apply the knowledge of Swift programming language. I have learned a new programming language and learned how to build an environment to develop an IOS application.

PERSONAL ATTRIBUTES

✓ **Effective Communication Skills:** Happy to communicate with others and can clearly express opinions

✓ **Punctuality:** Enjoy being punctual and always be punctual in any situation especial in the work environment

✓ **Flexibility and adaptability:** Have a flexible schedule for work and willing to make changes during work.

✓ **Time Management:** Well manage the timetable for work and finish work on time all the time