

# RUEI-PU(Allen) KOU

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3+ solid experiences in HTML/CSS including **RWD, SPA**. Familiar with popular front-end frameworks like **Bootstrap, ReactJs** and testing tools such as **Mocha** and end-to-end testing by **Selenium**. I have experience in developing a medium project as an F2E and I was responsible for implementing pages from mockup and rendering data from **RESTful API services**. I use some tools such as **Git** and **Docker** to enhance my performance of development, and I have experience with the **Serverless** structure (AWS' Lambda and API Gateway).

## Skills

- 3+ yrs HTML / CSS (Sass)
- 2+ yrs JavaScript
- 1yr+ React/ Redux(Es6)
- 1yr+ NodeJs(Express, [socket.io](https://socket.io/))
- Mocha ● Selenium ● Serverless
- Webpack ● Gulp ● Git ● Docker

## Work experiences

### Front End Developer I University of Waterloo - Conrad Business Centre

Waterloo, Canada | May 2017 – Aug 2017

- Implemented features based on React and Redux
- Practiced features including dynamic data graph, real-time chatting (Twilio's API)
- Built BDD testing practices (e2e by Cucumber, Selenium and Mocha)
- Cooperated with UI/UX team and enhanced website's components to be better

### Front End Developer I DIGIM

Taipei, Taiwan | January 2014 to May 2014

- Developed retina display friendly RWD pages
- Collaborated with the creative and back-end teams
- Enhanced colleagues' developing performances by using Sass and HTML template(ERB)

### Web Developer I Rexholiday

Taipei, Taiwan | July 2013 to December 2013

- Collaborated with stakeholders to improve an internal traveling system
- Developed internal IT devices plan
- Enhanced colleagues' workflow using SaaS

### Web Developer I Webike.tw

Taipei, Taiwan | January 2013 to July 2013

- Designed and developed the first version of prototype of eCommerce website base on Magento
- Organized over 300k primitive data to MySQL database
- Deployed project to EC2 instances in LAMP environment on AWS
- Made back-up plans and optimized servers' performances

## Education

Diploma in Computer Programmer

Seneca College - Toronto, ON

January 2015 to April 2017

Bachelor in Information management

Hsing Wu University - Taipei, Taiwan

August 2007 to August 2011

## Activity

### Volunteer I Fa-Yi Chong-De Guang-Hui Association

Toronto, Canada | April 2014 to Present

- Assisted members to run meetings using live streaming platform
- Educated charity member on selection and implementation of electronic devices
- Organizing meeting records and distributed records to members

# Work experiences in detail

## Front End Developer I University of Waterloo - Conrad Business Centre

Waterloo, Canada | May 2017 – Aug 2017

As my role as an F2E, In my current project, React and Redux is the major framework we are using.

The major part I charge include creating/enhancing components by using React and Redux.

In this case, our backend is serverless structure, so that I have a chance to understander what the serverless structure is.

I also have experience with calling and dealing with API service( 3rd API such as Twilio's chatting service).

In addition, I built the end-2-end testing by Mocha and Selenium. In the testing process, it goes through all features we have made by various browsers automatically.

React:

- Create scalable components as much as I can.
  - e.g. Think about if components can be displayed variably by just receiving props rather than make components which are very similar to others.
- Concept of separating components clearly
  - e.g. A complex component should be divided many sub-components rather than compose all components into one.
  - Usually, I separate each component as a single .js file. That's easy to maintain to me.
- Familiar with life cycles, understand life cycles and use them in various situations.
  - For different purposes, I know how to use life cycles to trigger functions or get the data.
- Familiar with dealing Async
  - In some situations, the UI components can be triggered by states which might be generated by Async.

Redux:

- Familiar with various data structure
  - e.g. If we want to search a specific from a sequence, we can consider making Hashmap sequence which is faster and easy to manipulate data.
  - So, depends on the purpose, I am able to design scalable data structure.
- Separate business logic and UI
  - Create business logic to actions in Redux.
  - The actions must be designed base on business logic rather than UI structure.
  - i.e. A great designed action, it should be able to be called/triggered by any UI components, not just only specific one.
- Middleware/ redux-thunk /Async
  - Redux-thunk to deal with Async cases is my major approach.

**I use React and Redux to develop features for most of them. Basically, I am in charge all UI components, but the following features are the major features I've done.**

Real-time chatting room:

- We use Twilio's message service as our comment and real-time chatting features
- Enhanced UX by creating autoscrolling
- Able to detect new messages and scroll to the end of the window to show the newest content to the users.

Learning module:

- Layout components by flex attribute
- Allows to use keyboard shortcuts to change slides like [www.slideshare.net](http://www.slideshare.net)
- Combined with the comment feature

Analytic:

- Rendering tracking data as visualization graph by using Recharts.
- Optimized data first before rendering graphs
- Customize the select bar to be fancy by using React-select
- Enhanced UX and UI to be easy to select users to display the graph.