

# ANSON CHONG

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[PORTFOLIO](#)

[GITHUB](#)

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## SKILLS

React, Redux, Ruby, Rails, JavaScript, HTML, CSS, SQL, Python, AWS, MongoDB, PostgreSQL

## PROJECTS

**HOPCAMP** (PostgreSQL, Rails, React, Redux, Google Maps API, AWS S3, Weather API)

[live](#) | [github](#)

*A campsite booking application inspired by Hipcamp*

- Constructed dynamic form input using React-day-picker library to prevent double booking on campsite, as well as validation logic to crosscheck new booking with previous bookings to ensure database integrity
- Incorporated **Google Maps API** along with its libraries to allow users to search for campsites based on geolocation with features to autocomplete search query and show campsites on map dynamically
- Harnessed the unidirectional data flow of Redux to design and optimize responsive search filters based on campsite types, campsite tags and other criteria without having to query the backend database
- Built a smooth, efficient booking UI for campsite booking by leveraging React Hooks to render tab components, maintain component's state and heavily DRY up code

**Therapuppy** (MongoDB, Express.js, React, Node.js, AWS S3)

[live](#) | [github](#)

*A puppy rental website using MERN stack*

- Integrated **AWS S3** cloud storage to increase application's scalability and improve user experience by allowing users to upload images of puppies while maintaining content security with AWS Identity and Access Management
- Utilised **Mongoose ODM** and effectively reduced server load by extracting data from underlying related collections and map results into JavaScript Objects to be used by the frontend in a single query
- Ensured user privacy and implemented User Auth in conjunction with **JWT** library to encrypt and send user details over Axios and decrypt on the frontend using JWT-Decode

**Flight Connectivity** (D3.js, javascript, HTML, SCSS)

[live](#) | [github](#)

*Visualisation of world's busiest airports' connectivity*

- Incorporated **D3.js** to create interactive diagrams visualising and displaying connectivity of world's busiest airports
- Utilised vanilla JS to generate and delete nodes on the diagram and allow users to select any airports by countries or continents

**"Design, Build, Fly" Team**

Sep 2018 – Jun 2019

*The University of Hong Kong*

- Built an RC plane using wood, soft polymer, carbon fiber capable of carrying 4 times its weight, winning 2nd place in an international competition in the U.K.
- Performed corrective actions based on flight tests to refine the designs and manufacture methods to achieve a 70% weight reduction from the original design to final prototype

## EXPERIENCE

**Technology Analyst**

*D2V Limited, Hong Kong*

Sep 2018 – Jan 2019

- Fabricated essential parts based on Blueprints for Airfield Ground Lighting Scanning and Inspection System (AGLSIS) that is used for scanning faults in the airport runway lights
- Designed structure to store the heavy weight contingency power supply weighted up to 150 kg
- Conducted oversea market research and analysis and put together go-to-market strategy for local customers in different regions with specific needs

## EDUCATION

**Web Development** - App Academy | April 2020

**BEng Mechanical Engineering** - The University of Hong Kong | 2015 - 2019