ANSON CHONG

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SKILLS

Ruby, Rails, JavaScript, Python, React, Redux, HTML5, CSS3, SQL, PostgreSQL, MongoDB, Express.js, Node.js, AWS

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
- Designed a smooth, efficient booking UX feature 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 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)
- 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*