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, JavaScript, Google Maps API, AWS S3, Weather API)   live | github
A campsite booking application inspired by Hipcamp
- Designed a **custom and smooth booking UI** to effectively prevent users from making overlapping booking, and implemented validation logic to crosscheck new booking with previous bookings to ensure database integrity
- Incorporated **Google Maps API** along with dynamic search filters to filter **1000 campsites** efficiently based on map coordinates and user preferences with features to autocomplete search query
- Harnessed **AWS S3** and **Rails ActiveStorage** for cloud storage of **3000+ images** to reduce server loads, enhance application's scalability
- Leveraged **OpenWeatherMaps API** with Rails on the backend to retrieve weather forecasts and return it to the frontend along with campsite data so that user can read all the information at once

Therapuppy (MongoDB, Express.js, React, Node.js, AWS S3, Git)   live | github
A puppy rental website using MERN stack
- Integrated **AWS S3** into **Express.js** and improved user experience by allowing users to upload and retrieve images from AWS while enforcing private bucket policy to prevent data corruption and only allow signed access
- Utilised **Mongoose ODM** to extract data in **MongoDB** from underlying related collections and map results into POJO 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)
- Conducted overseas 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*
BS Mechanical Engineering - *The University of Hong Kong | 2015 - 2019*