Edward Zhou

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Skills

React, Redux, JavaScript, Ruby on Rails, Express, Node.js, PostgreSQL, mongoDB, HTML5, CSS3, Webpack, Babel, Google App Engine, Typescript, Python

Projects

Dividewise (Splitwise Clone)

live site | github

Ruby on Rails, React/Redux, PostgreSQL, CSS, Javascript

- Created Redux slices-of-state to normalize database queries and increase single-page app responsiveness for bills, payments, users, comments, and friends
- Implemented Google OAuth2 authentication for Google accounts
- Validated a user's session token on CRUD operations to authorize incoming AJAX requests and constructed RESTful routes with JBuilder to output JSON
- Used Styled Components and animated CSS transitions on bill dropdowns and signup

TypingFantasy (Typing game in a fantasy setting)

live site | github

HTML5, Canvas,, JavaScript

- Implemented custom movement with trigonometry to allow objects in the game to intuitively interact with each other following keypress event listeners' activations
- Engineered layers of abstraction in gameplay elements such as spawn-time and positions of enemies by relying on Object Oriented Programming techniques
- Integrated dynamic imports with webpack to split large Chinese or English language dictionaries based on user selection
- Used a trie data structure to match a typed word in O(word length) time rather than O(all words) time

BoneThrow (MERN stack group project with a backend focus)

live site github

MongoDB, Express.js, React/Redux, Node.js

- Designed async/await functions in Express router with Axios promises to fetch user's geolocation data from Google Maps API
- Created a views-only Django API in Python to provide inverse Fourier Transform results of pet-related stock data later consumed by the React front-end with Chart.js
- Used localStorage to store users' dogs' sensitive weight data
- Calculated business logic on continuously-input dog-walk data inserted into MongoDB documents to deliver dog-walk recommendations to users

Experience

Support Engineer | Maxwell Dynamics | Sept 2014 - Aug 2017

- Tested and documented geophysical measurement-while-drilling software
- Assisted at client sites

Upstream Research Intern | Aramco Services Company | May 2012 - July 2012

■ Tested finite-difference time-domain software

Education

App Academy | San Francisco, CA | Oct 2019 - Feb 2020

Immersive software development course with focus on full stack web development

The University of Texas at Austin | Austin, TX | May 2014

B.S., Petroleum Engineering, B.A., Economics