Steven Chen

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Skills

React.js, Redux, JavaScript, Ruby, Ruby on Rails, MongoDB, Express, Node, SQL, Git, HTML5, CSS3

Projects

Pintourist (React/Redux, Rails)   Live Site | Github

Full stack single page app with a travel theme, inspired by Pinterest

- Created a RESTful API and CRUD actions for users, boards, and pins by updating a normalized Redux state through React form components
- Implemented BCrypt password hashing, backend Rails validations, and frontend validation logic to either display intuitive error messages or disable improper submissions
- Integrated CSS media queries and selectors to generate a responsive and aesthetically pleasing home feed
- Streamlined cloud-based image storage with AWS, optimizing for scalability and minimal server load

Beer-Man (JavaScript, HTML5, CSS)   Live Site | Github

Browser-based Pac-Man with a tasty twist

- Developed a grid and collision detection system which integrates seamlessly with the visual playing field
- Incorporated a velocity modification mechanic based on the type of consumed beverage
- Leveraged built-in HTML Canvas functionality to render sprites without third-party Javascript libraries
- Introduced directional input buffering by queueing the most recent key press to ensure fluid controls

Task Tracker (MongoDB, Express, React, Node)   Live Site | Github

Full MERN stack app for task management and delegation

- Designed a backend Node API with CRUD actions for tasks, groups, and chats
- Established real-time chat functionality for both groups and direct messages through Websockets
- Built an intuitive Redux state with well-partitioned React components for instant page updates and smooth feature navigation

Experience

Research Associate
Chan Zuckerberg Biohub   July 2017 - June 2018
- Managed a team of six lab assistants for the Mouse Aging Cell Atlas/Tabula Muris project
- Optimized high throughput workflow for characterization of 100,000 cells and their gene expression profiles
- Wrote R scripts to confirm efficacy of our homebrew pipeline, saving tens of thousands in reagent costs
- Contributed to Tabula Muris publication on bioRxiv

Research Assistant
xCella Biosciences   June 2016 - June 2017
- Polished communication skills as an early team member of a protein engineering startup company
- Handled the molecular biology workflow as the primary technician for three major partner projects

Education

App Academy (Summer 2018)
Immersive software development course with focus on full stack web development

Stanford University (Spring 2016)
BS - Bioengineering, GPA: 3.73