PERCY DAI

(510) 449-7892   pdai@ucsd.edu   **PORTFOLIO**   **GITHUB**   **LINKEDIN**

SKILLS

Ruby, Ruby on Rails, RSpec, JavaScript, jQuery, React, Redux, SQL, Git, JavaScript, HTML5, CSS3, AWS S3

PROJECTS

METEOR (React.js, Redux, Ruby on Rails, PostgreSQL)   live site | github

Full-stack web application that enables users to create stories, comment, and visit other user profiles.

- Setup Rails database schema using migration files and created the ActiveRecord associations and validations.
- Created controllers and associated routes to access JBuilder json files. Setup url params to interact with controllers for front-end AJAX http requests.
- Implemented user authentication using BCrypt for saved passwords and SecureRandom for randomized session tokens. Included bootstrap functionality to keep users logged in with session cookies after navigating to other pages on the site.
- Enabled users to create, update, and delete stories from their profile. Users can upload images from AWS using ActiveStorage.
- Used Redux to have a store managing global state for components and both logger and thunk middleware for easy debugging and handling of asynchronous functions.
- Integrated a search feature to quickly access stories based on keywords using frontend history to track search input.

BEASTMODE (MongoDB, Express.js, React, Node.js)   live site | github

Workout generator created for the beginner to experienced athlete.

- Created an interactive customized workout planner for users based on their level of fatigue, equipment, and gym access. Implemented front-end components with minimalistic CSS styling to give the user a responsive and smooth user experience.
- Designed a workout algorithm which includes detailed exercise instructions, number of sets to perform, and repetitions, reducing the workout intensity with the user's level of fatigue.
- Stored user workout plans using MongoDB so users can view previous workouts for future reference.
- Setup an AWS S3 environment to upload workout images to the cloud, reducing server load and enabling the application to scale with number of users.

3052 (JS)   live site | github

Classic game where the user shifts tiles to try and create the 3052 tile.

- Implemented OOP design patterns to organize game logic, board display, and scoring to easily test, manage, and debug code.
- Used CSS transitions to style tile movement, tile coloring, and render proper tile positioning with each user input.
- For every merged tile, a running score is generated for every pushed tile that matches another adjacent tile. The game is over when the user cannot move any more tiles.

EXPERIENCE

Corelation

Software Developer   October 2016 - November 2017

- Used VPN to connect to credit union client sites, DB2 servers to perform migration tasks, including data extraction, transformation, and loading; performed regular duties of reporting using in-house proprietary software tools; tuned SQL queries to optimize the database performance.
- Produced batch scripts for month-end financial process automation including transaction categorizing, fraud detection, closing expiring loans, and account validations..
- Delivered batch scripts during the ETL process to perform xml, txt, and xls file parsing for data extraction and cleaning.
- Used version control to manage production level code, access code updates, and merge new code changes.

EDUCATION

App Academy *(2019) #1 immersive full-stack web development course with < 3% acceptance rate.*

University of California, San Diego *(2013 - 2018) BS - Mathematics/Computer Science Major*