Melody Luo

Software Engineer

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SKILLS   React.js, Ruby on Rails, JavaScript, jQuery, Ruby, Redux, SQL, Git, HTML5, CSS3, Sass, MongoDB, Mongoose, Express.js, Node.js, PostgreSQL, SQLite3, Heroku, Webpack, Amazon AWS

PROJECTS

bumblr [Ruby on Rails, PostgreSQL, React/Redux, Amazon AWS]   Live Site | Github
A doggy-driven clone of media-sharing and blogging platform tumblr

- Implemented user authentication by using react-router to provide the front-end with protected and auth routes and BCrypt-ed password storage in the back-end, alongside storage of session token cookies both client-side and server-side to persist logins across sessions.
- Utilized Amazon Web Services (AWS) S3 and Rails Active Storage to store and compress images, employ Amazon's data security amongst project assets, and persist data from being cleared from cache on server resets.
- Leveraged front-end data validations using React component state to ensure the reception of viable information, thus improving performance and safeguarding against unnecessary asynchronous JavaScript requests which would slow down the user experience.

Fortune Couple [Mongoose, Mongo.DB, React.js, Express.js, Node.js]   Live Site | Github
A compatibility application inspired by fortune cookies, which generates fortunes based on two users' zodiacs

- Formulized front-end util to fetch user calculation and fortune data, using axios calls to capture the JSON response to be rendered by the history page React component.
- Coordinated with teammates as flex engineer to fulfill any missing pieces, serving as the main guide for data sourcing and research, and formulating consistent, user-friendly user-experience (UX) and aesthetically pleasing user-interface (UI).
- Employed Mongoose schema to join user and fortune objects and define the calculations data structure to create a back-end Mongoose model, essential to the capturing of JSON objects returned by routes.

Treat Retriever [Javascript, HTML, CSS, Canvas]   Live Site | Github
An infinite run game inspired by T-Rex Runner and good dogs

- Engineered parallax background with negative accelerations using moving background canvas, treats, and obstacles.
- Designed collision detection for the implementation of game logic such as score incrementing, treat retrieval, and game-over features.
- Built using object-oriented programming, separating game objects into individual classes such as obstacle, background, and player to ensure an organized codebase and abstract similar classes for clean and maintainable code.

EXPERIENCE

Textron Inc.
Financial and Information Services Intern   June 2017 - August 2017

- Conducted cost validations tax matrix for over 80 global suppliers using mastery of Excel pivot table tools, effectively managing risks and reducing third party liabilities.
- Designed layout for new IT Financial Management SharePoint, ensuring smooth website user interaction and acclimating user experience for over 13 of Textron's business subsidiaries.
- Oversaw asset management and physical auditing of 3 Textron subsidiaries, generating tabular spread of Textron inventory and decreasing inventory surplus by over 25%.

Air Charter Service (ACS)
Junior Account Manager   June 2016 - August 2016

- Managed 3 ACS subsidiary account receivables through global staff outreach and raising and posting of invoices, thus gaining valuable communication skills and adept knowledge of the Access Dimensions database.
- Implemented Excel projects to help analyze office costs, employee expenses, and yearly revenue, helping provide valuable budgeting information to improve financial circulation of global offices.

EDUCATION

App Academy - Immersive software development course with focus on full stack web development   Spring 2017
Indiana University, Kelley School of Business - *B.S. in Finance*   December 2018