Miles Song

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SKILLS

JavaScript, React.js, Node.js, Ruby on Rails, SQL, HTML ,CSS, MongoDB, jQuery, AWS, Python, GraphQL

PROJECTS

Skyscraper | React/Redux | Ruby on Rails | Postgresql | AWS | HTML | CSS   **live** | **github**

Tumblr-inspired single page app that allows users to upload media

- Designed **API endpoints** and **SQL database schema** using active record **ORM**.
- Incorporated **Redux selector patterns** to architect highly scalable and uni-directional front-end state management.
- Leveraged **AWS S3** for receipt image storage and utilized file compression to reduce latency and storage cost.
- Integrated **Webpack** and **Babel** to ensure a reliable uniform user experience across web browsers.

Ride | React | Node | MongoDB | Express | Mapbox | HTML | CSS   **live** | **github**

Motorcycle trips review app for users to plan and share rides

- Implemented User Auth by encrypting user details via the **JSON Webtoken** library to be sent over HTTP using **Axios** to be decrypted via the **JWT-Decode** library on the frontend.
- Utilized **Mongoose ORM** to map results of database queries onto JavaScript objects to be manipulated and returned to frontend, separating concerns and following **MVC** best practices.
- Designed **CSS transitions** on ride show / create, enhancing the user experience with smooth transitions.

Cheddar Cheese| Javascript | HTML Canvas | Webpack   **live** | **github**

Colorful point and click action survival game

- Designed game logic and browser render with **object oriented programming** in Javascript.
- Implemented custom movement, gravity, and **object collision functions** to provide a **physics engine** that allows objects in the game to intuitively interact with each other.
- Authored algorithms to generate game entities pseudo-randomly from a set of defined patterns, in order to strike a balance between predictability and freshness each playthrough.

EXPERIENCE

Program Manager
App Academy   03/2019 – 08/2019

- Managed the Engineering Interview Prep product, a program dedicated to honing technical abilities of mid-career software engineers.
- Implementing and managing changes and interventions to ensure project goals are achieved.
- Developing an evaluation method to assess program strengths and identify areas for improvement.

Product Implementation Manager
CLOUDCC- CRM   02/2018 – 02/2019

- Assisting in requirement gathering and API design for client customized SaaS solutions
- Facilitate post-sales and technical integration between the engineering team and clients.

Technology Consultant
Delphi Education Technology Consulting   08/2015 – 02/2018

- Providing consultation and implementation service for secondary and post-secondary institutions seeking technology solutions.
- Maintain and develop accounts and provide individual clients and institutions.

EDUCATION

Georgia Institute of Technology -   *B.S. Economics, 2011*
AppAcademy -   *Full-stack web development 2019*