MASA CHEUNG

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SKILLS
JavaScript, React, Redux, Ruby, Rails, PostgreSQL, MongoDB, Express.js, Node.js, Java

EDUCATION

Full Stack Development Certificate - *App Academy | Summer 2021*
BA Computer Science - *Rutgers University - New Brunswick | 2016 - 2019*

PROJECTS

MasaNote (Rails, React, Redux, ReactQuill, JavaScript, PostgreSQL, SCSS)   live | github
MasaNote is a single-page note-taking app that features a rich-text-editor, image uploading and autosaving
- Engineered secure RESTful authentication by encrypting passwords with BCrypt and generating and caching session tokens with the use of non-deterministic, cryptographically strong random numbers.
- Applied customized design and functionality to the react-quill library for smooth user experience in rich-text editing. Extended rich-text editing functionality by implementing auto-save with native Javascript and React.
- Provided Notebooks feature for users to organize their notes. Users can rename and delete notebooks via modals as well as navigate directly to the selected notebook to view all notes.
- Incorporated React-Redux container and Redux selector patterns to architect highly scalable and uni-directional front-end state management.
- Integrated HTML, SCSS, React and Redux to create a fashion overall theme of the application that provides users a friendly and intuitive interface.

Triolingo (MongoDB, Express, Rails, NodeJS, ReactJS)   live | github
Triolingo is a single-page flash card learning app that features a dictionary, audio pronunciation and discussion board
- Utilized the Validator.js library to validate user input in the controller before saving things into a MongoDB database in order to prevent saving malformed data.
- Employed dictionary-api to generate definition, example, synonym and audio pronunciation. Users can also create the flash card to store that information by clicking one button for future use.
- Leveraged a real-time discussion board to generate a collaborative learning environment to let users ask questions and discuss the study process.
- Collaborated with two other team members on daily stand-up reporting on current progress, short-term goals, and any roadblocks.

Dropping Down (JavaScript, HTML)   live | github
Dropping Down is a one player browser based game and the goal of the game is go down as many stairs as possible
- Constructed mathematics algorithm to randomly generate different types of stairs to increase the difficulty of the game. Different stairs provided different effects and sound to the player.
- Built complex DOM selection to allow users to manipulate the character moving left and right with keys "A" AND "D" in real time.
- Designed toggle pause feature for player to click the screen to start or pause the game.

EXPERIENCE

Alternative Break Participant

Buffalo State College   Nov 2015 - Feb 2016
- Volunteered in two Alternative Breaks in Buffalo organizations such as Matt Urban Hope Center, The Salvation Army, Outdoor Homeless Ministries to explore the issues of hunger.
- Organized 3 tons of clothes donation and distribution to homeless in downtown Buffalo.
- Implemented prepared and distributed meals, cleaned shelters, and communicated with 3,000 homelessness.