BRIAN MAY

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SKILLS

React, Redux, Node.js, HTML, CSS, SQL, JavaScript, Express.js, Python, Flask, PostgreSQL, Git, Docker, Heroku, AWS

PROJECTS

GoodHikes   (JavaScript, Pug, Express, CSS, SQL)   live | github

A full stack hike tracking platform inspired by GoodReads and AllTrails with a focus on improving design for a better user experience.

- Launched the "My Hikes" / Collections feature. A fully operational CRUD feature for the app to help users organize their hikes in different lists.
- Constructed the nav bar from scratch, created seed data, and hike description to give the website a more lived-in feel.
- Collaborated with a team of four engineers to create an advanced application in one week with various frameworks.

SonicTonic   (React / Redux, Express)   live | github

A full stack Soundcloud clone with a minimalist design, using React and Redux, with an Express back-end.

- Employed CSS3 gradients and selectors for a subtle, yet compelling application composition.
- Built clear user input forms with in-depth error validations using the express-validator package to help users effectively and more succinctly handle inputs.
- Incorporated React H5 Audio Player NPM package for audio playback, and customized the design completely to harmonize with the rest of the application's aesthetic.

Debonairbnb   (React / Redux, Flask)   live | github

A full stack Airbnb clone for exclusive estate rentals using React and Redux on the front-end with a Flask back-end.

- Established the theme for the website. Created React components with reusability in mind, giving the app a consistent style.
- Constructed the front end of the main Estate page. Executed the back-end routes for the full CRUD feature of estates.
- Analyzed the react google maps raw code to draw approximate locations on maps to replicate Airbnb's location feature.
- Coordinated with a team of three engineers to create a fully-fledged application in only one week, with extensive troubleshooting and bug fixing across all features.

Riff Raff   (React / Redux, Flask)   live | github

An online community for songwriters to collaborate, from an Instagram skeleton using React and Redux with a Flask back-end.

- Administered an Amazon Web Service bucket to permit users to upload original material directly from their computer.
- Engineered components and styling to be reused across the entire application aiding in the user experience, and ease of creating identically styled components for the developer.
- Evaluated edge cases for all inputs. Through extensive bug testing, with robust error validation on the back-end to prevent any potential nefarious users, keeping the user's information secure.

EXPERIENCE

Senior Engineer

Samsung Austin Semiconductor   Jul 2011 - May 2021

- Initiated an internal web app using Python and Flask to aggregate data collection to bring tools up, improving manufacturing capacity with no impact to product reliability.
- Aided in new advanced software development alongside HQ in Korea and site-wide software implementation. Ensured effective communication across training documents and modules for my department and the entire facility.
- Saved the company $6 million yearly for one project alone, among the many cost savings and capacity increasing projects.

EDUCATION

Web Development - *App Academy | Summer 2022*

M.S.E.E.   - 3.9 GPA - *University of Texas at Dallas | 2010 - 2011*

B.S.E.E.   - 3.8 GPA - *University of Texas at Dallas | 2006 - 2010*