Geoffrey Cox

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Skills React.js , Redux , HTML5 , CSS3 , JavaScript , Python , Express , Flask , SQL , PostgreSQL , AWS , Heroku

Projects

Nap Overflow | Pug , CSS3 , JavaScript , Express , postgreSQL, Heroku   live site | github

Question / Answer site modeled against Stack Overflow, allowing users to ask and respond to sleeping questions.

- Developed a **fetch** method to receive the scoring of answers, and ensured strong user interaction in voting by utilizing existing state status when making fetch calls.
- Established **Pug** and **CSS3** for question pages to improve the styling and user experience.
- Incorporated **eventListeners** through the **DOM** to ensure user visibility to upvoting and downvoting responses by changing button color.
- Utilized multiple fetch calls in a method to determine whether the user is attempting to upvote or downvote based on existing **state**.

Commoji | React / Redux , CSS3 , Python , Flask , PostgreSQL , Heroku, WebSocket   live site | github

Interact with other users in real-time with Commoji, an application modeled after Discord.

- Engineered an avenue for intuitive identifiers to be displayed to users when within a certain server and when modifying the details of a server/channel by utilizing **React Hooks**.
- Leveraged **WebSockets** to enable users to chat with each other in real-time.
- Utilized **ternaries** to construct a method for displaying relevant information about which channels can and cannot be modified by the user.
- Introduced **React** methods to ensure every server has one existing channel, i.e. a user cannot delete the 'general' channel.

HI Surf | React / Redux , CSS3 , Python , Flask , PostgreSQL , Heroku, AWS   live site | github

Post listings and request rentals for surfboards in Hawaii with HI Surf.

- Administered **AWS** S3 bucket to store images and enable the application to access and load images.
- Engineered responses from the **Flask** backend to send vital information to the frontend for information storage and accessibility through the **Redux State**.
- Designed a custom modular **carousel** for surfboard rental listings page to ensure a clean and streamlined user view with use of media queries.
- Ensured application displayed an error message when user attempted to navigate to nonexistent path.

Experience

Estimator | Grace Pacific, LLC. | January 2021 - August 2021

- Delivered cost estimation summaries for road paving projects across Hawaii with AutoCAD and Bid2Win.
- Built many model representations of the layout for existing projects across Hawaii.

Construction Engineer | Yogi Kwong Engineers, LLC. | December 2017 - June 2020

- Guided general contracting company Kiewit through client's (City and County of Honolulu) instructions for the creation of a 20-mile long gravity-fed sewer line along Pali Highway.
- Directed the team at Kiewit, realizing the completion of the ticket items 2 months before expected completion.

Education

App Academy | August 2021 - February 2022 | San Francisco, CA
Immersive software development course with focus on full stack web development

University of Colorado, Boulder | August 2013 - May 2017 | Boulder, CO
School of Engineering, BS of Mechanical Engineering