Geoffrey Cox

Software Engineer

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Portfolio | Linkedin | GitHub

Skills

JavaScript (ES6+) , NodeJS , Amazon Web Services (AWS) , Docker , React.js , Redux , RESTful APIs , NPM , Python , HTML , CSS , AJAX , Express , Flask , PostgreSQL , SQL , Pug , Git , Mocha , Chai , Test-Driven Development (TDD) , Object Oriented Programming (OOP) , JSON , JSON Web Token (JWT) , Web Sockets , WTForms , Bcrypt

Projects

HI Surf | (React.js / Redux , HTML5 , CSS3 , Python , Flask , PostgreSQL , AWS S3 , NPM , Heroku)   live site | github

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

- Administered an **AWS S3** bucket with Python's **BOTO3** library to store and access images for pictures of surfboards listed by creating image URLs.
- Utilized object oriented programming principles (**OOP**) with **JSON** in the design of the web application.
- Designed a custom modular carousel for surfboard rental listings page with use of media queries and **React** useEffect hooks to ensure a clean and streamlined view of listings.
- Implemented **WTForms** for data validation on the back-end.

Commoji | (React.js / Redux , HTML5 , CSS3 , Python , Flask , PostgreSQL , socket.io , NPM , Heroku) 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.
- Introduced **socket.io** to enable users to chat with each other in real-time.
- Leveraged **Redux** state to ensure channel, server, or message creation would not require a page refresh.
- Implemented **Python** with **Flask** back-end to give the channels feature full CRUD (Create, Read, Updated, Delete) functionality.

Nap Overflow | (Pug , HTML5 , Javascript , CSS3 , JavaScript , NodeJS , PostgreSQL , AJAX , Heroku) live site | github

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

- Utilized **Bcrypt** password hashing and **JWT** for user authentication and password security.
- Developed a **Node.js** back-end that optimized **AJAX** queries made from the front-end.
- Established **Pug** architecture with **CSS3** design for question pages to improve the styling and user experience.
- Incorporated a **PostgreSQL** database design to store user login information as well as questions and answers.

Experience

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

- Delivered 10+ cost estimation summaries for road paving projects across Hawaii with AutoCAD, Bid2Win, and Excel each month based on data-driven analyses of factors such as location, time, and traffic.
- Built over 50 model representations of the layout for existing projects across Hawaii for option visualization.

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

1000+ Hours Full-Stack software engineering course with <3% acceptance rate

University of Colorado, Boulder | August 2013 - May 2017 | Boulder, CO

School of Engineering, BS of Mechanical Engineering (MATLAB, Arduino)