Geoffrey Cox

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Software Engineer

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)