

# George Edward Merida

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## SKILLS

JavaScript, Python, Java, C++, HTML5, CSS3, SQL, Node.js, React.js, Redux, Flask, Express.js, Sequelize, SQLAlchemy, Git, REST, Material UI, Google API, AWS, Chart.js, Render, Heroku

## PROJECTS

### Holler

[Live Site](#) | [Github](#)

*Holler is a yelp-inspired website where users can find and review local businesses to help others make informed decisions.*

- Developed a responsive and engaging main feed using React and Material UI, allowing users to browse user-created businesses and view associated details, reviews, and images.
- Engineered and integrated data validation middleware that guarantees all requests are authorized and authenticated in accordance with the API definition, or returns the necessary HTTP error codes as required.
- Utilized CSS3 Flexbox, z-index, and React to construct code that implemented an image carousel feature, enabling users to navigate through a business's relevant images with ease.

### Candid

[Live Site](#) | [Github](#)

*Candid is an Instagram influenced platform where users can share photos and interact with other users through likes and comments.*

- Built a RESTful API with Flask that established a connection between the client and a Postgres database server, providing full crud functionality to manage user posts and comments.
- Developed a modular and dynamic user-post component using React that propagated users' main feed and facilitated user interaction.
- Leveraged GitHub's version control system to facilitate seamless collaboration among a team of four, utilizing a modular methodology to streamline feature separation, enhance productivity, and optimize workflow.

### StayBnb

[Live Site](#) | [Github](#)

*StayBnb connects people who want to rent out their homes or apartments with travelers who are looking for a place to stay.*

- Utilized Sequelize to implement an object relational mapper, creating migration and seeder files along with custom class functions that provided user input validation and error handling in the backend.
- Capitalized on Redux for managing the data flow from the backend and the state of React components, resulting in a responsive platform that could instantly reflect any changes made on the backend.
- Made use of the Express.js framework to accelerate backend development and build a variety of endpoints for retrieving complex data.

## EXPERIENCE

### Quality Specialist

*Hoag Memorial Hospital Presbyterian, Jan 2018 - Nov 2020*

- Employed project management tools to create and execute the N95 Respirator Fit Test program, achieving a success rate of over 70% of the organization in obtaining N95 respirator clearance.
- Conducted process workflow mapping to evaluate current and anticipated workflows, resulting in the identification of potential improvements within the N95 Fit Test workflow.
- Utilized quality management techniques and conducted assessments in the Gastrointestinal Laboratory to identify opportunities for improving efficiency and reducing case to case turnaround time by 25%.

### Industrial Engineering Healthcare Intern

*Hoag Memorial Hospital Presbyterian, Jun 2017 - Dec 2017*

- Facilitated the implementation of process improvement initiatives in partnership with the Director of Support Services, Senior Vice President of Support Services, and EVS Management.
- Conducted extensive data collection and analysis to develop a capacity-demand model for the EVS Department, enabling determination of the ideal schedule and number of staff needed to reduce average unassigned room backlog by 80%.
- Observed EVS staff in the hospital for a total of 25 hours and produced multiple process flow charts.

## EDUCATION

**App Academy** - Immersive software development course with focus on full stack web development (Winter 2023)

**California Polytechnic State University – San Luis Obispo** - BS - Industrial Engineering (Spring 2017)