

# MICHELLE KONTOFF

(978) 884-8352

[mlkontoff@gmail.com](mailto:mlkontoff@gmail.com)

[GITHUB](#)

[LINKEDIN](#)

## SKILLS

React / Redux, JavaScript, HTML / CSS, SQL, Express, Sequelize, Python, Flask, SQLAlchemy

## PROJECTS

**BabelingBook** (Flask, SQLAlchemy, ReactJS)

[live](#) | [github](#)

*A single-page blogging site with posts and comments*

- Constructed a React Context Provider that fetches and stores a post's comments that enables the comment subcomponents to universally access to the list of comments and fetch the new list when comments are edited or added
- Incorporated local storage to remember whether the sidebar was open when the user refreshes the page or navigates backwards for a fluid user experience
- Implemented classy slide-in effect for the sidebar on login and sign up that incorporates React state and CSS transitions for improved aesthetic

**SpudHub** (Flask, SQLAlchemy, ReactJS)

[live](#) | [github](#)

*A single-page Etsy clone to buy and sell produce*

- Spearheaded implementation of a shopping cart that utilizes local storage and the Redux store to dynamically update and save its contents, so they can be loaded them even when the page refreshes or after the user logs out then in again
- Designed Flask model relationships that link orders and the products therein through an order details joins table, which sets products as a property of order, thereby streamlining queries and displaying a user's order history
- Built custom React hooks to handle shopping cart CRUD functions which keep code DRY.

**PokeProbe** (Express, Sequelize, Pug, JavaScript)

[live](#) | [github](#)

*Product Hunt clone where users catch and make profiles for the Pokemon they catch*

- Manipulated the DOM to implement frontend validation of forms, ensuring input data was not lost by the page refreshing on submit
- Incorporated event listeners to dynamically update the caught Pokemon's name on the screen as the user typed it

## EXPERIENCE

**Research Lab Technician**

*UMass Medical School*

Dec 2018 - Aug 2019

- Performed PCR and gel electrophoresis to determine the genotype of hundreds of mice so they could be sorted correctly into either a control or experimental group
- Dissected mice, measured the length of their colons, and collected tissue samples to collate data for colitis research

## EDUCATION

**Full Stack Web Development** - App Academy | 2021

**BS Biology** - Framingham State University | 2016