

# MICHELLE KONTOFF

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[GITHUB](#)

[LINKEDIN](#)

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

## PROJECTS

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

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

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

- Constructed a React Context for comments component and its children that shows dynamic, immediate updates when changes are made to comments for increased app responsiveness.
- Implemented responsive CSS media queries for smooth viewing on almost any screen size.
- Designed RESTful APIs and relational database models that enable easy querying of posts and other data from an organized PostgreSQL database.

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

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

*Product Hunt clone where users catch hybrid Pokemon and make profiles for them*

- Manipulated the DOM to implement frontend validation of forms, ensuring input data was not lost by the page refreshing on submit, making form submission easy and smooth for the user.
- Implemented a search bar that queries the database for trainers and pokemon whose name, parent species, or element match the search term for user convenience.
- Developed a complex relational database that links hybrid pokemon to their parent species, their parents' elemental types, and their trainers.

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

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

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

- Spearheaded quality of life implementation of a dynamically updating shopping cart that utilizes Redux and local storage so cart contents can be loaded after the page is refreshed, or the user is re-authenticated.
- 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, resulting in more detailed queries of order history.
- Built custom React hooks to handle shopping cart CRUD functionality and keep code DRY.

## EXPERIENCE

**Research Lab Technician**

*UMass Medical School*

Dec 2018 - Aug 2019

- Collated scientific data for colitis research from dissected mice.
- Designed a database to catalogue hundreds of mice I genotyped, using PCR and gel electrophoresis, to correctly sort the mice into control and experimental groups.

**Pet Sitter**

*Self-employed*

2005 - 2016

- Marketed services locally, maintaining repeat clientele.
- Administered vital medications orally and subcutaneously.

## EDUCATION

Full Stack Web Development - App Academy | 2021

B.S. in Biology - Framingham State University | 2016