

**SKILLS:** React, Redux, Flask, Express, JavaScript, SQL, PostgreSQL, HTML, CSS**PROJECTS:****INFINITE LIBRARY** *Node.js Express, ReactJS*[live](#) | [github](#)

A book catalog website that reviews and automatically retrieves bibliographic data

- Designed a frontend user interface with React and CSS to allow users to add and browse bibliographic data entries.
- Created backend routes in Express to efficiently read and write bibliographic data to a PostgreSQL database.
- Utilized image data parsed from the Google Books API to display book covers automatically and space-efficiently on individual book pages.

**ALL-A-BOT** *Flask, ReactJS, Redux*[live](#) | [github](#)

A form-based online interface for automatically creating and downloading ready-to-deploy Discord chatbots

- Implemented a dynamic form using MaterialUI with React / Redux on the frontend to efficiently load stored data and update form layout
- Stored complex, nested data in a flexible, non-limiting format with SQLAlchemy, allowing for versatile scope.
- Designed backend server routes in Flask to handle retrieval and formatting of data in multiple formats.

**SWEETFEED** *Flask, ReactJS/Redux*[live](#) | [github](#)

A modern RSS reader with embedded media content and social features

- Implemented authentication using JSON Web Tokens and protected routes in React to ensure clarity and security.
- Determined how best to retrieve, parse, and present XML data from RSS feeds using React's dynamic content and formatting capabilities.

**EXPERIENCE:****Data Entry Assistant** - *ABC Legal*

Dec 2019 - Mar 2020

- Corrected and completed OCR-generated data harvested from legal documents to correctly direct documents for service of process.
- Leveraged Excel spreadsheets with advanced features to identify potential bottlenecks or inefficiencies in office workflows, by monitoring the rate at which documents were being processed.

**Contractor** - *Daphnia Labs*

April 2019 - July 2019

- Identified and labelled, in machine-readable format, individual organisms in photographs to allow that data to be used efficiently for training a machine learning algorithm.

**Mathematics and Computer Science Tutor** - *Marquette University Tutoring Center*

Sept 2016 - May 2019

- Guided students interactively through problems and concepts in Mathematics and Computer Science as a professional tutor in courses such as Calculus 1, 2, and 3, Linear Algebra, Intro. to Computer Science, and Data Structures & Algorithms I.

**Congressional Intern** - *Ways and Means Democrats*

Aug 2017 - Dec 2017

- Collated and arranged policy data in order to provide clear and accurate information to be used for making arguments in Congressional hearings.
- Handled communications from constituents, office staff, and members of Congress in real time in order to deliver the most important and urgent information directly to policy staff and office managers.

**Undergraduate Research Fellow** - *Marquette University*

June 2017 - Aug 2017

- Conducted paid research on graph theory problems in an academic context.
- Ran simulations in Python of optimal graph configurations at different scales to test numerical hypotheses.
- Analyzed experimental data to find mathematical formulae for bounding the limiting behavior of certain graphs.

**EDUCATION:**

AppAcademy

Graduated 2020

Marquette University - *BA Mathematics & Political Science*

Graduated 2019

**PUBLICATION:**Boyland, P., Roth, I., Pintér, G., Laukó, I., Schoenfield, J. E., & Wasielewski, S. (2017). On the Maximum Number of Non-intersecting Diagonals in an Array. *Journal of Integer Sequences*, 20(2), 3.