

# Isaac Finken

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Minneapolis, MN

[GitHub](#)

[Portfolio](#)

[Linkedin](#)

## Skills

JavaScript, React, Redux, HTML, CSS, Node.js, Express.js, SQL, PostgreSQL, Python, Flask, Alembic, Git, Heroku, Docker

## Projects

### FruitFall

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

Mapbox GL JS, JavaScript, React, Python, Flask, Alembic, HTML5, CSS3, postgresSQL, Heroku, Docker

*A crowd-sourced foraging app inspired by fallingfruit.org built with Mapbox API*

- Integrated Mapbox's forward geocoding API within a React form to allow user to place and drag a marker on the map or search for a location to autofill geographical coordinates
- Utilized multiple Mapbox layers to cluster groups of nearby data points into selectable components to simplify user interface and navigation
- Structured application to eliminate reloading of Mapbox styles after initial page load for improved user experience

### WhileSingle

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

JavaScript, React, Python, Flask, Alembic, HTML5, CSS3, postgresSQL, AWS, Heroku, Docker

*A dating app inspired by OkCupid.com*

- [I need to learn more about our websocket messenger so I can brag about it here]
- Constructed a matching algorithm based on a multiple choice questionnaire with three parameters per question using Python
- Utilized join tables and extensive back-end relationships to improve efficiency and parsability of front-end queries

### Stronklifts

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

JavaScript, React / Redux, Express.js, HTML5, CSS3, postgresSQL, Heroku

*A workout tracking app inspired by the popular Stronglifts 5x5 mobile app*

- Developed dynamic and responsive scatter plots with SVGs from scratch to allow users to instantly see workout progress based on selected exercise(s) and date range
- Built an algorithm that calculates a user's next workout according to the 5x5 program based on previous performance
- Simple and intuitive UI on desktop and mobile allows user to focus completely on their workout and leave program specifics to the application

## Experience

**Research Associate** | CT Associates, Inc. | September 2013 - May 2020

- Assist in the design, assembly, and operation of systems intended to assess purity, reliability, and/or lifetime of fluoropolymer chemical processing components
- Perform ISO and SEMI standard test methods, analyze raw data, prepare presentations, and finalize test reports for Fortune 500 customers
- [not sure what to do for "plain english benefits" for both of these jobs - the goal was to make customers/my boss happy]

**Intern** | Lightwave Photonics, Inc. | May 2013 - September 2013

- Simulate and optimize reflectivity of distributed Bragg reflectors of varying composition to reduce waste material
- Aid in development of novel gallium nitride epitaxial sputtering process to reduce costs and increase technological accessibility

## Education

**Web Development** | App Academy | Fall 2020

Immersive 1000+ hour software development program with < 3% acceptance rate and a focus on pair-programming

**B.S. Chemical Engineering, B.S. Chemistry** | University of Minnesota - Twin Cities | Spring 2017

Notoriously rigorous chemical engineering program regularly ranked in the top 10 worldwide