# Kevin O'Brien

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[GitHub](#) | [LinkedIn](#) | [Portfolio](#)

Full Stack software developer with a bachelor of arts in Physics, possessing a diverse and robust skill set building web apps. A natural problem solver, and innovative thinker, with a unique approach to development and design. Years of experience working with data analytics in MatLab, and Microsoft Excel. Additionally, a musician who values creative pursuits.

## TECHNICAL SKILLS

- Ruby/Rails | JavaScript | Sinatra | React/Redux | HTML5 | Python | CSS | SQL/PostgreSQL/SQLite | Git | LaTeX | Matlab | Microsoft Excel | Swift | Agile (Scrum) | Mathematica | Linux | iOS | Windows
- High level mathematical and problem solving skills including proficiency in calculus, differential equations, differential geometry, and solving of classical and quantum mechanical physical systems

## SOFTWARE PROJECTS

**Track Notes** - [GitHub](#) | [Video Demo](#)
*A react/redux client with a rails API service for music producers to provide notes for works in progress.*
- Utilizes container components and presentational components to store state, and display stateless information respectively
- Employs RESTful routing in new, index, and show pages
- Uses Redux middleware to respond to and modify state change

**Expense Tracker** - [GitHub](#)
*A python application tracking user inputted expenses, aiming to improve personal budgeting and allocation of resources.*
- Utilizes pandas and openpyxl libraries to interpret and write to .xlsx files, and aggregate data
- Prompts user within command line to guide through the process of submitting an expense
- Provides validations to avoid persistence of bad data

**SymbioSound** - [GitHub](#) | [Live Demo](#)
*A rails web application that serves as a collaborative music network for creators to interact with each other with the goal of completing projects, or providing instrumental services.*
- Validates data and provides error codes without saving incorrect data
- Manages data through complex forms and RESTful routes
- Authenticates users with third-party sites (i.e. Facebook)

## EDUCATION

**Flatiron School -** New York, NY                                                                                                  *2019*
- An immersive, highly intensive web development program in JavaScript, React, and Ruby on Rails

**State University of New York at Buffalo** - Buffalo, NY                                            *2016-2019*
- Bachelor of Arts in Physics
- Graduated Magna Cum Laude, graduate level and multiple honors courses

## PHYSICS PROJECTS

*Extensively analyzed and interpreted data of physical systems, details can be found in portfolio above.*
        **Pulsed NMR** - MatLab, LaTeX | **Optical Spectroscopy** - MatLab, LaTeX | **Hall Effect** - MatLab, LaTeX

## EMPLOYMENT HISTORY

**Remington Tavern Seafood Exchange,** Buffalo, New York – Restaurant Support Staff            *2019-Present*
- Engaged in building new and lasting relationships with customers through friendly and helpful service
- Performed above and beyond expectations in dedicating efforts towards facilitating an excellent restaurant experience
- Displayed excellent teamwork and adaptability through working with a large, dynamic group of coworkers

**James Perse,** Woodbury, New York – Sales Team Member                                            *2018-2019*
- Provided excellent customer service, and provided sales through demonstrating product value
- Received product, stocked and organized merchandise, as well as insuring tidiness in the store
- Took inventory of product and aided in loss prevention

**Top Shelf Sound,** Goshen, New York - Founder                                                         *2018-Present*
- Music production and software startup
- Participated in building artist brands, social media networking, and audio recording and production