**Kevin O’Brien**

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[GitHub](https://github.com/kpobrien4) | [LinkedIn](https://www.linkedin.com/in/kpobrien4/) | [Portfolio](https://kevinobrien.herokuapp.com/)

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 3 | CSS | SQL/PostgreSQL/SQLite | Git | LaTeX | Matlab | Microsoft Excel | 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](https://github.com/kpobrien4/react-final-project-hr) | [Demo](https://youtu.be/Asj28Dqm43g)

*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

**Equation Sheet Generator** - [GitHub](https://github.com/kpobrien4/equation-sheet-generator) | [Demo](https://youtu.be/42U-VjYRJqo)

*A JavaScript app with a rails API intended for students and teachers to generate a dynamic sheet of formulas to be used during exams.*

* Fetches data via multiple AJAX requests, with backend rendering in JSON format
* Utilizes serialization to convert API info to JSON
* Uses Javascript to render JSON on index page

**SymbioSound** - [GitHub](https://github.com/kpobrien4/rails-final-project) | [Demo](https://youtu.be/Utj_I0vIIJo)

*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, networking with social media, and audio recording and production