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 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](#) | [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

Equation Sheet Generator - [GitHub](#) | [Demo](#)
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](#) | [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, networking with social media, and audio recording and production