

# John O'Brien

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## SKILLS

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- **Technologies:** JavaScript, Typescript, Node.js, Express.js, MongoDB, PostgreSQL, React.js, Redux, Tailwind CSS, HTML, CSS, APIs, JWT Authentication, Auth0, Git, GitHub, Jest, Vitest
- **Languages:** Spanish (Professional Proficiency)

## PROJECTS

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### Tremendo [Live Site](#) | [Github Repository](#)

- Engineered a full-stack Kanban board application using React and Tailwind CSS, featuring an intuitive drag-and-drop interface for project organization and team collaboration.
- Developed a secure RESTful API using Node.js and Express, implementing JWT-based authentication with email verification and password recovery functionality.
- Architected and deployed the application infrastructure using MongoDB for data persistence, with an automated CI/CD pipeline through GitHub Actions for testing, building, and deployment.

### Chord Builder [Live Site](#) | [Github Repository](#)

- Built a full-stack chord sheet builder web application using React, Auth0 authentication, Typescript, and Express enabling musicians to create, save, and export custom guitar chord diagrams with responsive design for desktop and mobile devices
- Implemented dynamic PDF generation and cloud storage features allowing users to create personalized chord sheets with configurable grid layouts and export them as downloadable PDFs with custom filenames

### Learn the Notes [Live Site](#) | [Github Repository](#)

- Built an educational platform with an interactive guitar fretboard visualization tool using React, TypeScript, and React Router, featuring dynamic note highlighting, chord/triad display modes, and responsive design with collapsible control panels
- Implemented complex music theory algorithms to calculate and display triads, chord intervals, and string set filtering across customizable fretboard configurations with sharp/flat notation support

## WORK EXPERIENCE

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### John O'Brien Music

Jan 2020 – Present

*Music Teacher*

*Bethlehem, PA*

- Provide music instruction for students of all ages, all over the world. Since 2020, most lessons are given online.

### Cobrizo Geología Ambiental

Feb 2022 – Sept 2022

*International Business Support Analyst*

*Santiago, Chile*

- Directed communication with English-speaking clients and provided interpretation and document translation.

### Sunburst School of Music

Jan 2015 – Jan 2020

*Music Teacher and Program Developer*

*Pittsburgh, PA*

- Taught individual and group lessons. Developed Rock Band program and instrument rental and repair program.

### John Page Classic Guitars

Nov 2017 – Jan 2020

*Music Coordinator*

*Pittsburgh, PA*

- Coordinated with the CEO and marketing team to organize live-streamed music events promoting new models

## EDUCATION

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### University of Pittsburgh

Pittsburgh, PA

*B.A. Economics, Philosophy, Jazz Studies*

2015