

John O'Brien

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SKILLS

- **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

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

- Engineered a full-stack teams application using React and Tailwind CSS, featuring an intuitive drag-and-drop interface for project organization and role-based team collaboration.
- Developed a secure RESTful API using Node.js and Express, using Auth0 for authentication.
- Architected and deployed the application infrastructure using a PostgreSQL database for data persistence

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

John O'Brien Music <i>Music Teacher</i>	Jan 2020 – Present <i>Bethlehem, PA</i>
▪ Provide music instruction for students of all ages, all over the world. Since 2020, most lessons are given online.	
Cobrizo Geología Ambiental <i>International Business Support Analyst</i>	Feb 2022 – Sept 2022 <i>Santiago, Chile</i>
▪ Directed communication with English-speaking clients and provided interpretation and document translation.	
Sunburst School of Music <i>Music Teacher and Program Developer</i>	Jan 2015 – Jan 2020 <i>Pittsburgh, PA</i>
▪ Taught individual and group lessons. Developed Rock Band program and instrument rental and repair program.	
John Page Classic Guitars <i>Music Coordinator</i>	Nov 2017 – Jan 2020 <i>Pittsburgh, PA</i>
▪ Coordinated with the CEO and marketing team to organize live-streamed music events promoting new models	

EDUCATION

University of Pittsburgh <i>B.A. Economics, Philosophy, Jazz Studies</i>	Pittsburgh, PA <i>2015</i>
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