Alexis Millares Thomson
a_millaresthomson@outlook.com
(647) 210–2044
www.amusictheorist.com
https://github.com/amusictheorist
www.linkedin.com/in/alexis-millares-thomson
Toronto, ON

ABOUT ME

I'm a web developer with a research-driven mindset and a sharp eye for structure, clarity, and user experience. With a PhD in Music Theory and a background in teaching, I bring analytical precision, strong communication skills, and a talent for making complexity usable—whether in code, content, or interface design.

I build full-stack applications using JavaScript, React, Ruby on Rails, Python, and SQL, with a focus on clean architecture and thoughtful design. I thrive in collaborative environments where attention to detail, clear documentation, and user-centered thinking drive development. My goal is always to create tools that not only work—but that teach, scale, and make knowledge easier to access.

SKILLS

Languages & Frameworks
Node.js | JavaScript | Ruby | SQL | Python | TypeScript | Express | Rails | React | Django | CSS
Tools & Technologies
Git | GitHub | Visual Studio Code | Bootstrap | REST APIs | Mocha | Chai | RSpec | Cypress
Research & Analytical Tools
Microsoft 365 | Data Organization | Academic Research
Teaching & Communication
Curriculum Development | Lecturing | Public Speaking | Technical Writing
Soft Skills
Adaptability | Problem Solving | Critical Thinking | Collaboration
Languages
English (Bilingual) | Spanish (Bilingual) | German (Fluent) | French (Conversational)

EDUCATION

Lighthouse Labs   Sep. 2024–Dec. 2024
Diploma: Web Development
University of Toronto   Sep. 2019–June 2025 (exp.)
Doctor of Philosophy, Music Theory
University of Toronto   Sep. 2016–June 2018
Master of Arts, Music Theory
Concordia University   Sep. 2012–June 2016
Bachelor of Fine Arts, Music Composition

PROFESSIONAL EXPERIENCE

University of Toronto   Toronto, ON
Full stack Web Developer   Feb. 2025–present
- Designing and creating database for "European Refugee Musicians in Canada" online biographical dictionary.

- Developing a web application with a React frontend, integrated with a CMS-backed database to manage dynamic content efficiently.
- Integrating a custom API to fetch and display structured content efficiently.

University of Toronto
Music Theory Course Instructor   Jan. 2023–May 2023
- Simplified complex concepts for undergraduates, showcasing skills in breaking down technical problems.
- Led interactive lectures, fostering collaboration and critical thinking.
- Managed teaching assistants, ensuring consistency and quality.

University of Toronto
Research Trainee   March 2023–July 2024
- Conducted in-depth research on music theory topics, and synthesized data for academic publication.
- Drafted and edited materials, paying attention to detail and clear documentation.

University of Toronto
Research Assistant   Jan. 2021–March 2023
- Created and managed large datasets to support faculty research projects.
- Refined analytical methodologies through collaboration, fostering a problem-solving environment.

University Settlement Music & Arts School   Toronto, ON
Faculty Member and Theory Teacher   Sep. 2018–Aug. 2021
- Tailored lessons to diverse skill levels, emphasizing adaptability to student needs.
- Assessed student progress and implemented targeted instructional strategies, achieving high exam pass rates.
- Used creative teaching methods to maintain student engagement and foster a collaborative learning environment.

HIGHLIGHTED PROJECTS

Transformational Tonnetz   May 2025–in continuous development
Scope: a single-page web tool for visualizing and modelling musical progressions.
Tools: Node.js, React, Vite, TypeScript
Description:
- Used SVG for creating geometric tiling that user interacts with.
- Created multiple custom hooks to allow for different visualization options, dynamic zoom controls, and alternative usage mode.

Just Intonation Tools   March–April 2025
Scope: a multi-page web app with a set calculator and an interactive 3D modelling space, meant to explore advanced concepts in music theory.
Tools: Node.js, React, Python, JavaScript, Django, Three.js
Description:
- Used Python and Django framework for calculations and computations in the backend.
- Used Three.js to create 3D geometry and manipulable dynamic scene.
- Created custom hooks to manage state of multiple features and functions.

ERMiC Online Biographical Dictionary   February 2025 (in progress)

Scope: a static content web application that allows users to perform custom searches and browse the
dictionary's contents.

Tools: Node.js, React, JavaScript, Contentful CMS, CSS

Express TinyApp v2.0   January 2025

Scope: a multi-page web application for managing and sharing shortened URLs, emphasizing user
permissions and database-driven data handling.

Tools: Node.js, Express.js, EJS, PostgreSQL, JavaScript, HTML, CSS, Chai

Description:
- Built RESTful routes for secure authentication, URL creation, and management.
- Designed dynamic, responsive EJS templates for a user-friendly experience.
- Configured PostgreSQL for reliable data storage and integrity.