

EDUCATION

- **McMaster University** - Computer Science I **GPA:** 3.8 Hamilton, Ontario
Relevant Courses: *Software Design, Computational Thinking, Eng Math I & II* *May 2029 (expected)*

PERSONAL PROJECTS

- **Paper Strings**
 - *Air Guitar App*
 - **CV Zone:** Built a real-time hand tracking system that classifies guitar chord shapes using OpenCV and MediaPipe libraries, enabling virtual chord playback.
 - **Teachable Machine:** Trained a Keras model using 1500+ automated hand gesture images to achieve 80%+ chord classification accuracy over 5 guitar chords.
- **QuatroBeat**
 - *Rhythm Game akin to Guitar Hero. Allows user-made levels.*
 - **OOP:** Engineered a level system with class inheritance, enabling custom level design.
 - **File IO:** Utilized file IO to enable saving and loading both custom and in-game levels.
 - **JavaFX:** Established hitboxes and constructed game GUI with JavaFX for responsive and consistent gameplay.
- **GiftSpark**
 - *Full-Stack Web App that tracks Upcoming Birthdays*
 - **MySQL:** Developed a birthday reminder app that stores gift ideas to specific birthdays using a MySQL backend.
 - **Server-Side Scripting:** Wrote PHP scripts to handle logged birthdays and to automate data updates across server SQL tables.
- **Drawing App**
 - *Click and Drag to Draw Circles, Rectangles, and Lines of Various Sizes and Colours*
 - **OOP:** Constructed classes for each shape to track dimensions and drawing methods.
 - **Client-Side Scripting:** Implemented persistent canvas saving using local storage to preserve artwork across sessions.

EXPERIENCE

- **After-School Tutor** Brampton, ON
St. Edmund Campion Secondary School *Dec 2021 - June 2024*
 - Capitalized on online software to clarify mathematical problems to online tutees.
 - Dedicated an average of 7 hours per week to tutoring, both in-person and online.
 - Tutored primarily Mathematics and Computer Science courses ranging from Grade 9 to 12.
- **Food Bank Volunteer** Brampton, ON
Regeneration Outreach Community *Jul 2023 - Jul 2024*
 - Organized a two-week long food drive, providing 70 kg of food donations to Regeneration Marketplace.
 - Guided guests around the food bank, nurturing a welcoming atmosphere with conversation.
 - Prepared bags of produce, grains, and meats to be handed out to food bank guests.
- **Church Organist** Brampton, ON
Creditview Ward *May 2022 - August 2024*
 - Mastered 20+ hymns for a unique accompaniment for each week per month and for holidays.
 - Worked with church leadership to organize accompaniment for each Sunday Service.

PROGRAMMING SKILLS

- **Languages:** JavaScript, Java, Python, PHP, SQL, C, C++, C#, Haskell
- **Technologies:** Git, GitHub, Figma, MySQL, Unity, Visual Studio Code