Ralph Joseph

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WORK EXPERIENCE

MATHNASIUM **Ottawa, ON**

Tutor *Aug 2023 - Present*

- Utilized engaging teaching techniques and interactive learning materials to increase student participation by 25%, leading to a higher level of understanding and retention among students.
- Incorporated data analysis tools to track individual student progress and identify areas of improvement, resulting in a 10% increase in overall student achievement.
- Instructed complex math concepts in both English and French to diverse student groups, resulting in a improvement rate in overall comprehension.

EDUCATION

Carleton University **Ottawa, ON**

Computer Science Software Engineering Stream B.C.S. Honours (10.32/12) *Graduation Date: May 2025*

PROJECT EXPERIENCE

STORE GUI

Java-Simple-Store-GUI

- Developed a store application using JavaFX, incorporating and adhering to the MVC design pattern

Online Message Chat Application

Real-time online chat application

- Designed and developed a real-time online chat application that enables users to exchange messages over the web using HTML, CSS, JavaScript, and Node.js

Python Mini Games with Pygame

Collection of interactive mini games

- Developed a collection of interactive mini games using Python and Pygame, showcasing skills in game development, user interface design, and problem-solving

VOLUNTEER EXPERIENCE

CARLETON UNIVERSITY PMC Notetaker **Ottawa, ON**

Paul Menton Centre for Students with Disabilities *May 2023 - Present*

- Took initiative to commit to and follow-through on a leadership role at the Paul Menton Centre for Students with Disabilities for a number of months under minimal supervision
- Maintained confidentiality and professionalism while interacting with professional staff and note-taking recipients
- Prioritized and organized workload to consistently meet 48-hour weekly notetaking deadlines, ensuring timely delivery of crucial academic support for students with disabilities.

SKILLS

Programming: C, C++, Python, MATLAB, HTML, CSS, Java, JavaScript. Operating System: Windows, MAC OS, and Linux Others: Git/Github, IntelliJ, Visual Code, Microsoft Office Language: French (fluent), English (fluent)

RELEVANT COURSEWORK

Systems Programming, Abstract Data Types and Algorithms, Modeling and Computational Methods for Experimental Science, Multivariable Calculus, Introduction to Statistical Modeling