

Ralph Joseph

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EDUCATION

Carleton University | Honors BSC in Computer Science - Software Engineering Stream (GPA: 10.5/12 | A-)

Minor in mathematics

- Relevant course work: Systems Programming, Abstract Data Types and Algorithms, Modeling and Computational Methods for Experimental Science, Introduction to Statistical Modeling, Database management
- Programming languages C, C++, Python, MATLAB, HTML, CSS, Java, JavaScript, React, SQL, Node
- Others: Git/GitHub, IntelliJ, and Visual Studio Code, Linux, Windows, Microsoft Suite

RELEVANT PROJECT EXPERIENCE

Java-Simple-Store-GUI | Store GUI

- Developed a Java-based graphical user interface (GUI) for a simple store application.
- Implemented features for user interaction, data display, and transaction processing.
- Demonstrated proficiency in Java and GUI design principles.

Online Message Chat Application

- Created and implemented a cutting-edge real-time online chat application, leveraging expertise in HTML, CSS, JavaScript, and Node.js to facilitate seamless message exchange among users on the web.
- Engineered the application with a user-friendly interface, ensuring an intuitive and enjoyable user experience.
- Conducted thorough testing and debugging, addressing potential issues to enhance application stability.
- Actively participated in code reviews, incorporating feedback to optimize code quality and maintainability.

Python Mini Games with Pygame

- Engineered a diverse array of interactive mini-games utilizing Python and Pygame.
- Designed and implemented engaging gameplay mechanics, enhancing user interaction and satisfaction.
- Integrated responsive user interfaces, emphasizing aesthetics and usability to elevate the gaming experience.
- Conducted playtesting sessions to gather user feedback, iteratively improving game design and functionality.

RELEVANT EXPERIENCE

Tutor - Mathnasium (Ottawa, Canada)

August 2023 - Present

- Employ dynamic teaching methods and interactive materials to boost student engagement by 25%, enhancing comprehension and retention.
- Integrate data analysis tools to monitor individual progress, identify areas for improvement, and contribute to a 10% increase in overall student achievement.
- Instruct complex math concepts in English and French to diverse student groups, fostering a notable improvement in overall comprehension rates.

PMC Volunteer Notetaker - Carleton University; Paul Menton Centre for Students with Disabilities (Ottawa, Canada)

May 2023 - Present

- Assumed a proactive leadership position, demonstrating initiative and commitment under minimal supervision.
- Upheld confidentiality and professionalism in interactions with professional staff and note-taking recipients.
- Effectively managed and prioritized workload to consistently meet 48-hour weekly notetaking deadlines, ensuring the timely delivery of vital academic support for students with disabilities.

Hobbies: reading, playing sports, listening to music