

Jerry Liu

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EDUCATION

Carleton University

Bachelor of Computer Science

Ottawa, Canada

(Expected graduation April 2023)

- Fourth year standing, CGPA: 9.35/12

SKILLS

Technical Skills

- Proficient in Java, C/C++, Python, SQL, HTML, CSS, Javascript
- Utilized Javascript and MongoDB to create a trivia quiz website capable of generating random quizzes from a database of questions
- Created an AI in Pygame that is able to observe its surroundings and strategically pursue objectives while directly competing with other AI opponents

Communication Skills

- Collaborated with a group of programmers to create a course management website that accurately reflects relationships between students, professors, and courses
- Managed schedules and organized internal meetings between board members of Carleton Computer Science Society for event planning and meetings with the school of computer science at Carleton

PROJECTS

Platform shooter game | *Gamemaker studio 2*

June 2018-July 2018

- Developed a platform shooter game by implementing object-oriented programming, improving modularity and code re-usability
- Improved the layout and function of the game through debugging and optimization

Course management system | *C#, HTML, Node.js, ASP.NET*

February 2021-April 2021

- Designed a course system that reflects a real-life course system through the use of design patterns
- Proposed and implemented the use of Visitor, Factory and Observer designs using UML diagrams
- Applied CSS and HTML to enhance the UI of the website, making it more appealing to users

EXPERIENCE

Lifeguard and Swim Instructor

September 2016–April 2017

City of Markham

Markham, Canada

- Created a safe and effective environment for swimmers through creative thinking and use of equipment when pool space was inaccessible due to scheduling errors

Math and English Teacher

September 2018–August 2019

Kumon North America

Scarborough, Canada

- Directed communication and sales between parents to promote efficient transactions and proper workload distribution
- Supervised and guided children through their education by establishing a mutual relationship and motivating them

COMMUNITY & LEADERSHIP

Vice President

May 2020–April 2021

Carleton Computer Science Society

Ottawa, Canada

- Encouraged student participation and engagement to improve the quality of life for computer science students by hosting and promoting social events
- Facilitated internal discussions between board members to boost productivity and raise morale