

# Jerry Liu

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## EDUCATION

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### Carleton University

*Bachelor of Computer Science*

Ottawa, Canada

*(Expected graduation April 2023)*

- Fourth year standing, CGPA: 9.35/12

## SKILLS

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### 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

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### Nine Men's Morris AI | *Python*

March 2022-June 2022

- Used OOP to create a playable game with responsive UI
- Implemented an AI capable of making intelligent moves through the use of adversarial search and min-max game trees

### 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

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### 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

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### 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