

Cristian Moretto

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EDUCATION

University of Waterloo

Bachelor of Computer Science, 3.90 GPA (1A Term)

Sep. 2023 – May 2028

Waterloo, ON

Cardinal Carter CHS

IB Diploma, OSSD, 97.5% Top 6 Average

Sep. 2019 – June 2023

Aurora, ON

PROFESSIONAL EXPERIENCE

Swim Instructor & Assistant Lifeguard

Splashville

July 2023 – Sep. 2023

Vaughan, ON

- Delivered individual and group swim lessons to students from ages 2-30 alongside a team of 14 instructors
- Maintained open communication with over 30 parents, supervisors, and coworkers
- Adapted a swim curriculum and facilitated student growth through encouragement and technical instruction

Swim & Lifesaving Instructor

Azure Swim School (Personal Business)

July 2022 – Sep. 2023

Nobleton, ON

- Organized and delivered individualized and small-group swim lessons in 7 clients' backyard pools
- Communicated professionally with clients on a daily basis to schedule lessons and manage payments
- Inspired students' passions for water safety while maintaining an engaging and supportive learning environment

Swim Instructor & Deck Supervisor

KC Swim School

July 2021 – Aug. 2022

Caledon, ON

- Taught private and semi-private swim lessons, and supervised pool activities along with one other instructor
- Adapted to three teaching environments and enforced workplace safety protocols

RESEARCH & PROJECTS

IB Computer Science Extended Essay | *Python, TensorFlow, Keras, Matplotlib* 🤖

Feb. 2022 – March 2023

- Wrote a 4000 word research essay exploring the effect of convolutional neural network architecture on efficiency
- Referenced 10 academic sources to support findings and communicate concepts to readers
- Trained a multi-layered CNN model to classify images from four MNIST datasets with over 99% accuracy
- Visualized model performance using Matplotlib and analyzed the effect of 64 structural variations

2D Platforming Game | *Python, PyGame, PyCharm, SDL* 🎮

Oct. 2021 – Dec. 2021

- Developed a 2D platforming game with an engine that supports collision detection, animations, and custom levels
- Implemented a UI, dynamically scrolling camera, responsive handling of player inputs, and invincibility frames

EXTRACURRICULARS

First-Year Representative

The Mathematics Society of the University of Waterloo

Oct. 2023 – present

Waterloo, ON

- Consulted first-year Math faculty students and represented their opinions at council meetings
- Proposed and executed study sessions to foster student engagement, regularly attracting over 100 students
- Promoted council events and initiatives on social media, and demonstrated transparency through written reports

Event Organizer

Cardinal Carter CHS Student Council, Prom Committee

Sep. 2022 – June 2023

Aurora, ON

- Planned and executed 7 school-wide events, including semi-formal and prom
- Used Microsoft Excel to manage event logistics, including ticket sales and the information of over 450 students
- Communicated frequently with students, teachers, and administration to ensure events ran smoothly

Communications Chair

Carter Blue (Mental Health Awareness Club)

Sep. 2021 – June 2023

Aurora, ON

- Ran the club's social media accounts and promoted events to the student body, designing & making over 20 posts
- Liaised with 3 other student organizations to ensure inclusivity and maximize event attendance

SKILLS

Languages & Technologies: JavaScript, Python, Racket, C, HTML/CSS, LaTeX, Keras, Git, VS Code, Linux

Certifications & Additional Training: Standard First Aid With CPR-C, Swim Instructor, Bronze Cross