

# Cristian Moretto

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## EDUCATION

<b>University of Waterloo</b> <i>Bachelor of Computer Science, 3.90 GPA (1B Term)</i>	Sep. 2023 – May 2028 Waterloo, ON
<b>Cardinal Carter CHS</b> <i>IB Diploma, OSSD, 97.5% Top 6 Average</i>	Sep. 2019 – June 2023 Aurora, ON

## PROFESSIONAL EXPERIENCE

<b>Swim Instructor &amp; Assistant Lifeguard</b> <i>Splashville</i> <ul style="list-style-type: none"><li>Delivered individual and group swim lessons to students from ages 2-30 alongside a team of 14 instructors</li><li>Maintained open communication with over 30 parents, supervisors, and coworkers</li><li>Adapted a swim curriculum and facilitated student growth through encouragement and technical instruction</li></ul>	July 2023 – Sep. 2023 Vaughan, ON
<b>Swim &amp; Lifesaving Instructor</b> <i>Azure Swim School (Personal Business)</i> <ul style="list-style-type: none"><li>Organized and delivered individualized and small-group swim lessons in 7 clients' backyard pools</li><li>Communicated professionally with clients on a daily basis to schedule lessons and manage payments</li><li>Inspired students' passions for water safety while maintaining an engaging and supportive learning environment</li></ul>	July 2022 – Sep. 2023 Nobleton, ON
<b>Swim Instructor &amp; Deck Supervisor</b> <i>KC Swim School</i> <ul style="list-style-type: none"><li>Taught private and semi-private swim lessons, and supervised pool activities along with one other instructor</li><li>Adapted to three teaching environments and enforced workplace safety protocols</li></ul>	July 2021 – Aug. 2022 Caledon, ON

## RESEARCH & PROJECTS

<b>IB Computer Science Extended Essay</b>   <i>Python, TensorFlow, Keras, Matplotlib</i> 🌀 <ul style="list-style-type: none"><li>Wrote a 4000 word research essay exploring the effect of convolutional neural network architecture on efficiency</li><li>Referenced 10 academic sources to support findings and communicate concepts to readers</li><li>Trained a multi-layered CNN model to classify images from four MNIST datasets with over 99% accuracy</li><li>Visualized model performance using Matplotlib and analyzed the effect of 64 structural variations</li></ul>	Feb. 2022 – March 2023
<b>2D Platformer</b>   <i>Python, PyGame, PyCharm, SDL</i> 🌀 <ul style="list-style-type: none"><li>Developed a 2D platforming game with an engine that supports collision detection, animations, and custom levels</li><li>Implemented a UI, dynamically scrolling camera, responsive handling of player inputs, and invincibility frames</li></ul>	Oct. 2021 – Dec. 2021

## EXTRACURRICULARS

<b>First-Year Representative</b> <i>The Mathematics Society of the University of Waterloo</i> <ul style="list-style-type: none"><li>Consulted first-year Math faculty students and represented their opinions at council meetings</li><li>Proposed and executed study sessions to foster student engagement, regularly attracting over 100 students</li><li>Promoted council events and initiatives on social media, and demonstrated transparency through written reports</li></ul>	Oct. 2023 – present Waterloo, ON
<b>Event Organizer</b> <i>Cardinal Carter CHS Student Council, Prom Committee</i> <ul style="list-style-type: none"><li>Planned and executed 7 school-wide events, including semi-formal and prom</li><li>Used Microsoft Excel to manage event logistics, including ticket sales and the information of over 450 students</li><li>Communicated frequently with students, teachers, and administration to ensure events ran smoothly</li></ul>	Sep. 2022 – June 2023 Aurora, ON
<b>Communications Chair</b> <i>Carter Blue (Mental Health Awareness Club)</i> <ul style="list-style-type: none"><li>Managed the club's social media accounts and promoted events to students, designing &amp; making over 20 posts</li><li>Liaised with 3 other student organizations to ensure inclusivity and maximize event attendance</li></ul>	Sep. 2021 – June 2023 Aurora, ON

## 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