

# Cristian Moretto

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## SKILLS

**Languages & Technologies:** JavaScript, Python, Racket, C, HTML/CSS, LaTeX, Keras, Git, SQL, Linux, MS Office  
**Certifications & Additional Training:** Standard First Aid With CPR-C, Swim Instructor, Bronze Cross

## EDUCATION

**University of Waterloo** Sep. 2023 – May 2028  
*Bachelor of Computer Science, 3.90 GPA (1B Term)* Waterloo, ON

- **Relevant Coursework:** Designing Functional Programs, Elementary Algorithm Design & Data Abstraction, Tools & Techniques for Software Development

## 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 clearly communicate abstract 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 Platformer** | *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 & S24 Elections Committee Member** Oct. 2023 – present  
*The Mathematics Society of the University of Waterloo* 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** Sep. 2022 – June 2023  
*Cardinal Carter CHS Student Council, Prom Committee* 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** Sep. 2021 – June 2023  
*Carter Blue (Mental Health Awareness Club)* Aurora, ON

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

## PROFESSIONAL EXPERIENCE

**Swim Instructor & Assistant Lifeguard** July 2023 – Sep. 2023  
*Splashville* 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** July 2022 – Sep. 2023  
*Azure Swim School (Personal Business)* 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** July 2021 – Aug. 2022  
*KC Swim School* 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