

Cristian Moretto

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SKILLS

Programming Languages: C, C++, Python, Java, SQL, JavaScript, Racket

Technologies & Developer Tools: HTML/CSS, Keras, TensorFlow, Pandas, Matplotlib, Linux, Git, Excel, JIRA

EDUCATION

University of Waterloo

Sep. 2023 – May 2028

Bachelor of Computer Science, 3.87 GPA

Waterloo, ON

- **Relevant Coursework:** Object-Oriented Software Development, Elementary Algorithm Design & Data Abstraction, Tools & Techniques for Software Development, Logic and Computation

PROFESSIONAL EXPERIENCE

Software Developer Intern

May 2024 – Aug. 2024

Independent Electricity System Operator

Oakville, ON

- Developed a Java web application for management of generation contracts, reducing manual data entry by 35%
- Proposed, tested, and implemented an Oracle SQL database architecture that halved required data operations
- Abstracted pessimistic locking logic with Java methods to ensure data integrity and reduce code volume by 54%
- Spearheaded creation of a team knowledge hub, documenting best practices and specifications across 40 apps
- Integrated RESTful APIs to automate application health checks and reduce support ticket response time by 25%
- Collaborated with 30 Agile developers, testers, and business analysts, completing 4 user stories per sprint

Swim Instructor & Assistant Lifeguard

July 2021 – Sep. 2023

Azure Swim School (Personal Business), Splashville, KC Swim School

Vaughan, ON

- Delivered individual and group swim lessons to students from ages 2-30 alongside teams of up to 14 instructors
- Communicated professionally with over 30 clients on a daily basis to schedule lessons and manage payments
- Adapted a swim curriculum and facilitated student growth through encouragement and technical instruction

RESEARCH & PROJECTS

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

Feb. 2022 – March 2023

- Composed 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
- Graphed computer vision model performance using Matplotlib and analyzed the effect of 64 structural variations

2D Platformer | *Python, PyGame, PyCharm, OpenGL* ☎

Oct. 2021 – Dec. 2021

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

EXTRACURRICULARS

Computer Science Representative & Elections Committee Member

Oct. 2023 – Present

The Mathematics Society of the University of Waterloo

Waterloo, ON

- Consulted computer science & first-year Math faculty students and represented their opinions at council meetings
- Refactored a STV ballot system in Python and Rust to automate the counting of 300+ votes with tiebreaker logic
- 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, Carter Blue (Mental Health Club)

Aurora, ON

- Planned and executed 7 school-wide events, including semi-formal and prom
- Utilized Microsoft Excel to manage event logistics, including ticket sales and the information of over 450 students
- Liaised with students, teachers, and administration to ensure inclusivity and maximize event attendance