Cristian Moretto

📞 647-617-0415 | ✉ cmoretto@uwaterloo.ca | in linkedin.com/in/cristian-moretto | ⌓ github.com/criscreates

SKILLS

Programming Languages: C, C++, Python, Java, SQL, Racket, JavaScript
Technologies & Developer Tools: HTML/CSS, Keras, TensorFlow, Matplotlib, Oracle SQL, Linux, Git, Excel

EDUCATION

University of Waterloo   Sep. 2023 – May 2028
Bachelor of Computer Science, 3.87 GPA (2A Term)   *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 (Co-op)   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 and UIs 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
- Collaborated with 30 Agile developers, testers, and business analysts, completing 4 user stories per sprint
- Integrated RESTful APIs to automate application health checks and reduce support ticket response time by 25%

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
- Visualized 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 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

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