**Education**

**Bachelor of Applied Science**, Computer Engineering 2020 – 2024

* **Queen’s University**, Kingston, ON
* Relevant Courses: Engineering Design Modules, Neural and Genetic Computing, Computer Vision, Algorithms, Database Management Systems, Computer Architecture

**Technical Skills and Awards**

* **Deans Honor List 2022/2023,** Queen’s University
* **Silver Medalist**, Next Generation Medical Simulation Hackathon 2022
* Experience programming with C#, C++, Python (Pytorch, Pandas, Scikit-Learn), SQL, HTML, PHP, CSS, MatLab, Verilog, Java, Git, Nios II Assembly Language, VHDL
* Experience with GitHub, AI Development, App Development, Web Development, Unity, Simulink, Solidworks 3-D CAD Tool, Quartus, Power BI, Microsoft Suite, Power Apps, and Soldering

**Relevant Experience**

**Chief Technical Officer of Software**, Queens Biomechatronic Team, Kingston ON 2022 - Present

* Managing a team of 24 student engineers to design and program a lower body electronic exosuit to allow firefighters to carry an extra 50 lbs of weight over uneven terrain
* Communicating with a network of motors using CANBUS systems, C++ and Arduinos
* Designing an innovative closed loop algorithm that responds to user feedback gathered with pressure and positions sensors to increase user comfort and suit efficiency by 37%

**Engineering Manager**, Queens Solar Design Team, Kingston ON 2021 - 2022

* Lead a team of 12 student engineers that finished Semi Finalist at the US Solar Decathlon
* Designed a net zero electrical tiny home that is 46% more efficient than a new house of the same size by using innovative technologies and professional collaboration and leadership

**Work Experience**

**Programmer/Analyst**, Ontario Provincial Police, Orillia ON 2023

* Developed an End-to-End Automated Testing Program for the Recruitment and Development Website, increasing testing speed of developers by over 370% and vastly reducing bugs
* Developed using C#, Selenium, AutoBogus, and Microsoft’s suite of tools such as Dataverse

**Game Development Team Lead**, Stem World Education Services, Ottawa ON 2022

* Lead 9 student engineers to design, program, and develop two educational math-based games for children aged 6-10 used in the school system to teach 8 educational topics
* Created both apps UI Ais, and backends for both Android and iOS using Unity and C#

**Head of Lifesaving Department**, Washago Community Center, Washago ON 2019 - 2020

* Lead the Lifesaving Department and ordered $400 of equipment and created the Centers water-based policies and procedures to allow the campers to safely access the waterfront

**Volunteer Experience**

**Database Engineer** at Engineers Without Borders, Toronto ON 2022

* Organized and maintained the Engineers Without Borders client databases for client contacts and donations, increasing the number of actively donating clients by over 50 repeat clients
* Fixed 200 broken database entries and added 450 new database entries