

Education

UNIVERSITY OF WATERLOO | HONORS BACHELOR OF APPLIED SCIENCE (COMPUTER ENGINEERING)

- **Achievements:** President's Scholarship, Dean's Honours List, Top Quartile
- **Courses:** Data Structures and Algorithms, Systems Programming and Concurrency, Digital Computers, Embedded Microprocessor Systems

Skills

- **Languages:** Java, C, C++, Python, SQL, JavaScript, VHDL, Verilog, HTML/CSS
- **Technologies:** Spring, Flask, NumPy, Pandas, Vue, GCP/AWS, MongoDB, React, Cordova, Tableau, Git, SVN, Bash, Jira, CAD

Experience

FORD AV | SOFTWARE ENGINEERING INTERN | JAN 2022 – PRESENT

- Developed full-stack fleet management applications using Vue, Spring/Java, SQL
- Participated in API design and specification meetings with third-party service providers
- Experimented with the use of Google Cloud Platform in creating reliable and scalable applications
- Competed in the Ford Pro Hackathon, exploring serverless applications on GCP

RICOH | SOFTWARE ENGINEERING INTERN | MAY 2021 – AUG 2021

- Pioneered the design and creation of a network device locator using Java, SNMP, and REST APIs
- Integrated its use with Ricoh's Streamline NX device management platform
- Created documentation for specifications, limitations, and the instructions for the use of the program
- Developed and specified test cases for QA and testing

SEISMIC LIVESOCIAL | SOFTWARE ENGINEERING INTERN | SEP 2020 – DEC 2020

- Worked in an Agile team to deliver and develop features for a cross-platform, full-stack React/Express app
- Created an internal app distribution site using Angular
- Created, visualized, and refactored queries and reports using MongoDB and Redash
- Documented and experimented with the use of BlackBerry Dynamics and Cordova to build password-secured mobile applications for corporate clients
- Automated UI tests using Selenium WebDriver

IESO | SYSTEMS ANALYST INTERN | JAN 2020 – APR 2020

- Built queries using SQL, Tableau Prep, and created metrics dashboards for reports on Tableau
- Created automated reports using VBA scripts, Excel, and macros for previously manual reports
- Analyzed and assessed power grid compliance events across Ontario

Projects

- **Sentiment Classifier:** NLP, Python, Flask, scikit-learn, numpy, pandas
- **Home Security System:** C, Proteus, PCB/Circuit Design, Microcontrollers
- **Multithreaded Web-Crawler:** C, cURL, pthreads, libxml2, HTTP
- **Multithreaded vs Multi-process PNG Retriever and Concatenator:** C, cURL, pthreads, shared memory, IPC, PNGs
- **Minimum Spanning Tree Finder:** C++, Graphs, Prim's Algorithm
- **Trie Dictionary/Autocomplete Tool:** C++, Tries
- **Classroom Mark Manager/Visualizer:** Java, Swing GUI, MVC

Activities

- **FIRST Robotics:** Electrical, Controls (Java), Mechanical (AutoCAD, Autodesk Inventor, CNC, Machining)
- **ECOO and CCC (Programming Competitions):** Java and Python

Interests

Soccer, Basketball, Cycling, F1, Design, Electronics, Hardware, History, Geography