

Education

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|---|---------------------------------|---|
| Edmonton, AB | University of Alberta | Fall 2022 - Winter 2024
(Expected) |
| <ul style="list-style-type: none"> • M.Sc (Thesis) in Computing Science • Graduate Coursework: Mobile and IoT Systems, Parallel and Distributed Systems, KDD and Data Mining, Experimental Mobile Robotics • Supervisor: Ioanis Nikolaidis | | |
| Edmonton, AB | University of Alberta | Fall 2018 – Winter 2022 |
| <ul style="list-style-type: none"> • B.Sc. Honors in Computing Science – GPA: 3.6. • Undergraduate Coursework: Operating System Concepts, File and Database Systems, Computer Systems and Architecture II, Calculus II, Image Recognition, Software Process and Product Management, GPU Programming, Web Application and Architecture. • Dean’s Honor Roll: For the 2018 - 2019 academic year. | | |
| Lethbridge, AB | University of Lethbridge | Fall 2016 – Spring 2018 |
| <ul style="list-style-type: none"> • B.Sc. in Computer Science with a minor in Economics - GPA: 3.96. • Undergraduate Coursework: Fundamentals of Programming, Discrete Mathematics, Digital Systems, Linear Algebra I, Computer Architecture, Data Structure and Algorithms, Artificial Intelligence, Music Software Design, Statistics I, Practical Software Development. • Dean’s Honor Roll: For the 2016 - 2017 and 2017 - 2018 academic years. | | |

Employment

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| Assistant Engineer, Intern | Huawei Canada | May 2020 – August 2021 |
| <ul style="list-style-type: none"> • Created an automated testing and performance analysis framework to help developers improve compiler performance. • Performed profiling analysis on AI specific algorithms and improve upon them by 39%. • Performed performance analysis on the benefit of Out-of-Order Commit using gem5 and LLVM to show hardware and software benefits. • Developed an ML-guided performance prediction model for LLVM IR. | | |
| Undergraduate Research Assistant | University of Alberta | September 2019 – January 2020 |
| <ul style="list-style-type: none"> • Explored Software Defined Radio using GNU Radio on the ADALM-PLUTO platform. • Researched real time storage and processing of multiple radio bands on the Ettus X310 SDR platform. | | |
| Research Assistant, Summer Student | University of Alberta | Summer 2019 |
| <ul style="list-style-type: none"> • Developed a real-time occupancy flow and recognition algorithm for a low resolution infrared camera. • Established 2 Linux servers for machine learning, and algorithmic testing for the university’s sustainable computing and networking lab. | | |
| Research Assistant, Summer Student | University of Lethbridge | Summer 2018 |
| <ul style="list-style-type: none"> • Developed an API written in C++ for a neuromorphic camera using software development techniques to streamline algorithm development and testing. • Created a comprehensive dataset using the neuromorphic camera to be used by researchers for algorithmic testing and evaluation. | | |

Projects and Competitions

- **2017 Rocky Mountain Regional ACM ICPC:** Placed 31st out of 52.
- **2017 Alberta Collegiate Programming Contest:** Placed 28th out of 53.
- **2017 Lethbridge Collegiate Programming Contest:** Place 4th in Division 2.

Additional Experience and Awards

- **Teaching Assistant (Fall 2019):** Created assignments for Operating Systems Concepts, and attended lab sessions to help students with course content.
- **Teaching Assistant (Fall 2020):** Created worksheets for Introduction to Tangible Computing 1, created midterm materials for algorithms and data structures, and attended lab sessions to help students with course content.
- **Teaching Assistant (Winter 2021):** Created weekly weekly assignments for Introduction to Tangible Computing 2, and attended lab sessions to help students with course content.
- **Teaching Assistant (Winter 2022):** Marked assignments and managed group projects in Web Applications and Architecture, and attended lab sessions to help students with course content.
- **Teaching Assistant (Fall 2023):** Marked assignments and managed group projects in Introduction to Software Engineering, and attended lab sessions to help students with course content.

Skills

- *(Proficient):* C/C++, Python, Linux, Git, Bash, R *(Familiar):* Java, SQL, Scheme, SQLite, Arduino.
- *(Proficient):* GDB, Valgrind *(Familiar):* gprof, gcov, CppUnit, LLVM
- *(Familiar):* ROS
- Microsoft Office Suite (Word, Excel)

Leadership and Extracurriculars

- **Undergraduate Association of Computing Science:** Senior Representative (2019-2020)