

Education

Edmonton, AB	University of Alberta	Fall 2022 - Winter 2025 (Expected)
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- M.Sc (Thesis) in Computing Science
- **Research Topic:** Wireless localization and user classification in 5G cellular networks
- **Supervisor:** Ioanis Nikolaidis
- **Graduate Coursework:** Mobile and IoT Systems, Parallel and Distributed Systems, KDD and Data Mining, Experimental Mobile Robotics

Edmonton, AB	University of Alberta	Fall 2018 – Winter 2022
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- 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
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- 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

Assistant Engineer, Intern	Huawei Canada	May 2020 – August 2021
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- 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
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- 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
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- 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
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- 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 2024):** Marked assignments, midterm, and final as well as performed lab lectures for Operating Systems Concepts.
- **Teaching Assistant (Winter 2024):** Marked assignments and performed lab lectures for Security in a Networked World.
- **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.
- **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 (Winter 2021):** Created weekly weekly assignments for Introduction to Tangible Computing 2, 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 (Fall 2019):** Created assignments for Operating Systems Concepts, 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, MATLAB, JavaScript
- *(Proficient):* GDB, Valgrind
- *(Familiar):* gprof, gcov, CppUnit, LLVM, ROS
- Microsoft Office Suite (Word, Excel)

Leadership and Extracurriculars

- **NeurAlbertaTech:** Director of Logistics (2024)
- **HackED:** Food and Swag Organizer (2023-2024)
- **Undergraduate Association of Computing Science:** Senior Representative (2019-2020)