Kimberly Hau

MASc student | Electrical & Computer Engineering | University of Toronto

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EDUCATION

University of Toronto Toronto, ON

Master of Applied Science in Computer Engineering 2025-2027 (expected)

- Thesis topic: exploring alternatives across stages in the ML pipeline, seen through series of versions of computational notebooks
- Advisor: Dr. Shurui Zhou (Computer Engineering)

University of Toronto Toronto, ON

Bachelor of Applied Science in Engineering Science 2024

- Specialization in Machine Intelligence
- Engineering Business Certificate
- Undergraduate thesis: LLMs in Mobile Apps: Practices, Challenges, and Opportunities

PROFESSIONAL EXPERIENCE

Capstone Project: Automated Cross-Country Skiing Sub-technique Classification for Canadian Sport Institute Pacific September 2023 – December 2023

- Developed a Convoluted Neural Network for classifying stride technique based on IMU data

Robot Vision and Learning Lab Toronto, ON

Research Intern May 2021 – September 2021

- Developed a simulator for controlling and visualizing robot movement, and optimizing waypoint selection for environmental sampling in water with Bayesian optimization
- Writing a real-time web application using JavaScript libraries, as well as ROS and C++

EcoSystems Research Group Toronto, ON

Research Intern May 2020 – September 2021

- Assisted in developing LifeStream, a streaming engine for periodic data streams that performs up to 8x faster than Trill, as well as in writing an ASPLOS publication
- Wrote queries in Trill, contributed to building a domain specific language (DSL) and an LLVM-based JIT compiler for generating hardware efficient code for temporal queries

PUBLICATIONS

MOBILESoft '25 2025

LLMs in Mobile Apps: Practices, Challenges, and Opportunities

Kimberly Hau, Safwat Hassan, Shurui Zhou

- We constructed a comprehensive dataset of 149 LLM-enabled Android apps and conducted an exploratory analysis to understand how LLMs are deployed and used within mobile apps.

ASPLOS '21 2021

LifeStream: A High-performance Stream Processing Engine for Periodic Streams

Anand Jayarajan, Kimberly Hau, Andrew Goodwin, Gennady Pekhimenko

- A stream processing engine specially optimized to process signal processing operations. Used at SickKids hospital for physiological data analysis.

AWARDS, FELLOWSHIPS, and GRANTS

• Dean's Pivot Fellowship	$5,000	2021
• Engineering Science Research Opportunity Program Award	$6,000	2020
• President's Scholar Entrance Award	$10,000	2019