

Education

- 2021 – 2026
Waterloo, Canada
- Honours Co-op Bachelor of Computer Science and Bachelor of Business Administration,**
University of Waterloo, Wilfrid Laurier University
GPA 3.7/4
Undertook advanced versions of classes where we **wrote compilers**, learned about advanced data structures, efficiency of programs, and digital logic.
- 2022
- Compute Ontario Summer School**
COSS is a set of courses taught by accredited researchers, where I studied topics centered around data science such as **Programming GPUs**, High Performance Computing, and **Deep Learning**.

Work Experience

- 05/2022 – present
- Undergraduate Research Assistant,** *University of Waterloo*
- Currently researching fake news detection, by creating a browser extension that uses a model to classify articles. Looking to **publish a research paper** on findings when complete.
 - Cleaned data and created new features based on article metadata, resulting in an **improvement of over 20%** in precision and recall.
 - Models were created and tested using **Pytorch** using **CUDA** GPUs, using **HPC** techniques such as **parallelization** on supercomputers resulting in fast turnaround on testing and ideation.
- 09/2021 – present
- Lifeguard,** *University of Waterloo*
- Work with swimmers of all ages and abilities, upholding a fun and safe environment.
 - Manage 60+ young campers by explaining rules, performing swim tests, and comforting.
- 06/2020 – 09/2020
- Full Stack Developer,** *Prof. Mei Naggapan*
- Planned requirements, timelines, and distributed work to a team in order to upgrade an existing site with new features, resulting in a new site with modern infrastructure for the client.
 - Improved user experience by using **Bootstrap framework** and using **Elasticsearch** to add searching by tags, making the site easier and faster to navigate.

Skills

Languages

Python - C++ - C - JavaScript - Java

Tools, Libraries, Experience

Google CP - MongoDB - React - GNU CLI - PyTorch
Tensorflow - Cuda - MPI - Numba - Slurm - Paraview

Projects

DataFest 2022 Participant and Winner (Best Insight), *Python*

- Worked in a team of three on a large and noisy dataset of user data from a study, to analyze and provide insight.
- Gave a winning presentation on how to improve the study, according to the pitfalls we found within the data.

Maze search and Sorting Visualization, *Javascript, React* [↗](#)

- Made an **interactive JavaScript React webapp**, where users can create a custom maze for various algorithms to navigate.
- Both visualizations were created by coding the algorithms from scratch, resulting in an efficient and custom presentation.

University of Waterloo Alternate Fuels Team (UWAF), *Python, bash*

- Working as a core member, collaborating with teammates to create weekly sprints, working towards long-term goals.
- Automated startup and testing sequence using **bash** scripts, saving time for every time the car was started.
- Created documentation by taking notes from on-the-fly debugging during track day testing sessions.