

EDUCATION

- **University of Toronto** Toronto, ON
Specialist (Co-operative) Program in Computer Science; GPA: 3.68 *Aug. 2021 – Expected in 2025*
- **Related Courses:** Linear Algebra, Discrete Mathematics, Introduction to Probability, Software Design, Introduction to Machine Learning and Data Mining, Introduction to Numerical Algorithms for Computational Mathematics

PROJECTS

- **System Monitoring Tool**
A tool run on Linux that reports different metrics of system utilization.
 - Providing information including CPU and memory utilization, basic system architecture and user information.
 - Written in C and takes command line arguments to report various information formats.
- **System-Wide FD-Tables Tool**
A C program displaying the tables used by the OS to keep track of open files, assignation of FD and processes.
 - Display FD tables owned by the current user, including the PIDs, FDs, file path and Vnodes.
 - Able to generate report and output data to file as user requests.
- **News Article Categorization Model**
A machine learning model that can label news articles.
 - Built using Python and the Numpy libraries.
 - Use Gaussian Class Conditionals, k-Nearest Neighbors, and Naïve Bayes classifiers that are trained on the preprocessed data using cross-validation to prevent over-fitting.
- **Course Planning Application**
An Android application to help students view provided courses and generate schedules for each semester
 - Allows students to view and select courses offered by their university and add them to their course schedule for each semester. And allow teachers to add or modify courses.
 - Core functionality of generating a timeline of courses which displays each course in the earliest session the student may take, according to restrictions on prerequisites and session offerings
 - Build using JAVA, used Android Studio for front-end design and Firebase cloud to manage users' information.

EXPERIENCE

- **University of Toronto** Toronto, ON
Teaching Assistant *Sep 2022 - Present*
 - Conducted weekly office hours and organized review sessions for Calculus for Management course.
 - Created and facilitated practice problems during review sessions to improve students' integration and differentiation techniques, resulting in positive feedback from students and course professors.
 - Provided individualized help to students by breaking down complex concepts into more manageable parts.

SKILLS

- **Languages:** Python, C, Java
- **Technologies:** Visual Studio, Eclipse, Android Studio, JIRA, Microsoft Office
- **Operating Systems:** Windows, macOS, Linux/Unix
- **Libraries:** Pandas, NumPy, Matplotlib, Scikit-Learn
- **Soft skills:** Bilingual in Chinese and English, creativity, collaboration, adaptability, leadership, conflict resolution and negotiation