

Timothy Mao

Computer Scientist in Training

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<https://github.com/perditi>

Technical Skills

| | | |
|-----------------------|----|---|
| Programming Languages | :: | Java, Go, Prolog, Python |
| Databases | :: | PostgreSQL |
| Other | :: | Windows, Microsoft Office, Google Workspace |

Projects

Object Recognition Algorithms (Java)

Developed and implemented optimized advanced algorithms for object detection and dominant plane identification, utilizing cutting-edge techniques such as **DBSCAN** and **RANSAC**.

Various Childrens' Games (Java)

Developed playable implementations of **Towers of Hanoi** and **Tic-Tac-Toe**.

Education

University of Ottawa / BSc Joint Honours in Computer Science and in Mathematics (CO-OP)

SEPT 2021 - PRESENT (EXPECTED 2025)

CGPA 10.0/10 (to date)

Relevant Courses: Introduction to Computing I & II, Data Structures and Algorithms, Computer Architecture I, Linear Algebra I, Discrete Mathematics for Computing, Discrete Structures, Calculus I & II, Databases I

MITx / Introduction to Computer Science and Programming Using Python

JUNE 2018 - SEPT 2018

Work Experience

Computer Science Student Association @ uOttawa / Vice President Logistics

OCT 2022 - PRESENT

Duties involved maintaining a meticulous and accurate record of all 500+ merchandise items in stock via Excel sheet, ensuring that inventory levels were accurately reflected at all times. Additional duties included monitoring incoming and outgoing items and enforcing effective measures to prevent loss or damage to assets.

The Real Canadian Superstore / Overnight Grocery Clerk

JUNE 2022 - AUGUST 2022

Duties involved efficiently organizing and arranging various merchandise items on store shelves in a logical and straightforward manner to ensure availability and accessibility to customers. Additional duties included reviewing and removing expired or outdated merchandise from store shelves, as well as verifying that all price tags are up-to-date and consistent with the merchandise.

Awards

Dean's Honour List (Fall 2021, Winter 2022, Fall 2022), **Merit Scholarship** (\$1,000/term), **Admissions Scholarship** (\$4,000), **Presidential Award for Academic Excellence**, **AP Scholar Award**
