

Timothy Mao

Computer Scientist in Training

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Technical Skills

Languages	::	Java, Python, C#, Go, JavaScript, HTML, CSS, Prolog, C++, R
Databases	::	PostgreSQL, MySQL
Other	::	Windows, Microsoft Office, Google Workspace, Git, Unity, Figma, JIRA

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 Hackathons (C#, JavaScript, HTML, CSS)

Participated in **Hack the Hill** 2023 (Unity) and **MLH All-In Hackathon** (Chrome Extension).

Education

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

SEPT 2021 - PRESENT (EXPECTED 2025)

CGPA 9.6/10 (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, Multivariable Calculus, Programming Paradigms, Databases I, Probability and Statistics for Engineers, Design and Analysis of Algorithms I, Introduction to Software Engineering, Programming Language Concepts, Advanced Programming Concepts with C++

Work Experience

Computer Science Student Association @ uOttawa / Vice President Logistics

OCT 2022 - PRESENT

Duties involve 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 include monitoring incoming and outgoing items and enforcing effective measures to prevent loss or damage to assets.

Hack the Hill / Community Coordinator

MAY 2023 - PRESENT

Duties involve organizing The Hacker Series (a monthly community engagement event), collaborating with MLH Pizza Fund, creating and communicating a detailed schedule for all events, managing participant applications. Also managing equipment and resources, encouraging attendance, and interfacing with hackers for feedback. Additionally, setting up and engaging with members on a Discord server.

uOttawa / Research Assistant

MAY 2023 - AUGUST 2023

Diligently followed instructions, developed a cutting-edge traffic simulation using **Python** to test an experimental intersection algorithm designed for self-driving cars. Worked closely with two PhD students, gaining fundamental knowledge in machine learning.

Awards | Dean's Honour List (x3), Presidential Award for Academic Excellence, AP Scholar Award