

JACK MCASH

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 hand-burger.github.io/portfolio  jack-mcash  hand-burger

EDUCATION




University of Toronto HBSec. Computer Science and Mathematical Sciences	Sept. 2022 - May 2027 GPA: 3.89
St. Mary's High School Ontario Secondary School Diploma	Sept. 2018 - June 2022 GPA: 4.0

EXPERIENCE

Teaching Assistant, University of Toronto Department of Mathematical and Computational Sciences
Aug. 2024 - Present

- Prepared and delivered tutorials for over 100 students in the following courses:
CSC236: Introduction to the Theory of Computation. **MAT135**: Differential Calculus.
- Graded assignments and provided feedback to students.
- Held office hours to assist students with course material.

PROJECTS

SiteSynth Dynamic Website Generator  devpost.com/software/sitesynth	2023
<ul style="list-style-type: none">• A dynamic website generator which transforms natural language input into a clean formatted and stylized website.• Uses the power of Cohere's generate API and Large Language Models to streamline the web development process.	
OpenCV Rubik's Cube Solver  hand-burger/Rubiks-Cube-Solver	2022
<ul style="list-style-type: none">• C++ computer vision program which scans a Rubik's cube and quickly outputs a solution.• Made using C++ and the OpenCV library.	
Hamiltonian Snake  hand-burger/hamiltonian-snake	2020
<ul style="list-style-type: none">• Game of snake which plays itself by generating a Hamiltonian circuit, which ensures it will always win.• Made using JavaScript and HTML.	

SKILLS

Programming Languages, Frameworks and Technologies

Python, C++, C, Java, LaTeX, Git. HTML/CSS, JavaScript. Competitive Programming, Computer Vision, Robotics. PyTorch, Django, Machine Learning, Web Scraping.

AWARDS AND SCHOLARSHIPS

Entrance Scholarship , University of Toronto UofT \$12,000 Renewable scholarship awarded for 98% average.	2022 - 2026
Dean's List Scholar , University of Toronto Awarded for having above a 3.50 GPA.	2023 - 2024

RELEVANT COURSES

Computer Science: CSC263: Data Structures and Analysis. CSC207: Software Design. CSC209: Software Tools and Systems Programming. CSC236: Introduction to the Theory of Computation.
Mathematics: MAT244: Ordinary Differential Equations. MAT224: Linear Algebra II. MAT232: Calculus of Several Variables.
Statistics: STA256: Probability and Statistics I. STA260: Probability and Statistics II.