JACK MCASH

jack.mcash@mail.utoronto.ca Toronto, ON
hand-burger.github.io/portfolio jack-mcash hand-burger

EDUCATION

University of Toronto Sept. 2022 - Ongoing
HBSc. Computer Science and Mathematical Sciences GPA: 3.94

St. Mary's High School Sept. 2018 - June 2022
Ontario Secondary School Diploma GPA: 4.0

PROJECTS

SiteSynth Dynamic Website Generator devpost.com/software/sitesynth 2023

- 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

- C++ computer vision program which scans the Rubik's cube and quickly outputs a solution.
- Made using C++ and the OpenCV library.

Hamiltonian Snake hand-burger/hamiltonian-snake 2020

- 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 2022 - 2026
UofT $12,000 Renewable scholarship awarded for 98% average.

Dean's List Scholar, University of Toronto Winter 2023
Awarded for having above a 3.50 GPA.

RELEVANT COURSEWORK

Computer Science: CSC263: Data Structures and Analysis: **IPR**. CSC207: Software Design: **87%**. CSC209: Software Tools and Systems Programming: **IPR**. CSC236: Introduction to the Theory of Computation: **92%**.

Mathematics: MAT244: Ordinary Differential Equations: **IPR**. MAT224: Linear Algebra II: **99%**. MAT232: Calculus of Several Variables: **94%**.

Statistics: STA256: Probability and Statistics I: **87%**.