

Aaron Dutta

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[defAaron](#)



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Executive Summary

A highly dedicated, self-motivated and result-driven high school student who is passionate about mathematics and programming, and is aiming to harness skills in the field of engineering and software.

Education

- Milliken Mills High School (OSSD and IB Diploma) **Expected May 2026**
- University of Waterloo (Lloyd Auckland Invitational Mathematics Workshop) **June 2025**

Technical Skills

Xap – *Python · HTML · API Implementation:*

- Developed a Flask-based web app to retrieve the most recent tweet by handle on a given date
- Designed a clean form-driven UI with instant result display and fallback handling for no tweets
- Planned future integration with Twitter/X API, Bootstrap/Tailwind UI enhancements, and cloud deployment

Flashcards – *Python (Flask) · HTML · CSS · UI/UX Design · Database Management:*

- Developed a web application for creating, managing, and studying digital flashcards
- Implemented CRUD functionality for flashcards with question/answer storage in a database
- Built a simple, interactive UI/UX with options to study flashcards or take tests based on user content

Portfolio – *HTML · CSS · Javascript · Bootstrap · UI/UX Design:*

- Designed and developed a responsive multi-page website to showcase projects, awards, and certifications
- Implemented clean layouts with modern styling, ensuring consistency across sections

TimeWise – *Java · Object-Oriented Programming · Modular Class Design · ArrayList Data Handling:*

- Built a Java console app to manage assessments with features to add, remove, search, and list deadlines
- Implemented overdue tracking and completion status updates with robust input validation
- Designed a modular structure using ArrayList and multiple classes for scalability

Other languages: C, C++, SQL

Tools/Frameworks: Bootstrap, Cursor, Excel, Figma, Flask, Git, GitHub, Pandas, PyTorch, React, SQLite, VSCode

Certifications

- Harvard University's CS50x **2024**
- Royal Conservatory of Music Level 9 Piano, Level 10 Music History **2023 - 2024**
- Bronze Medallion, Bronze Cross, Emergency First Aid, Standard First Aid **2023**
- Black belt in Karate **2022**

Job Experience

- Mathematics Mentor at Filix School of Education **2024 - Present**
- Swim Coach at Olympian Swimming **2023 - Present**

Extra-Curricular Experience

- Event Coordinator, Student Leaders At Milliken at Milliken Mills High School **2024 - Present**
- Content Executive, Math Society Club at Milliken Mills High School **2024 - Present**
- Club President, Trivia Team at Milliken Mills High School **2023 - Present**
- Grade 10,11,12 Rep, Music Council at Milliken Mills High School **2023 - Present**
- Saxophonist, Senior Band at Milliken Mills High School **2023 - Present**
- Mathematics Peer Tutor at Milliken Mills High School **2023 - Present**
- Pianist, Jazz Band at Milliken Mills High School **2022 - Present**

Awards

- Grade 12 Calculus and Vectors Highest Average Award **2025**
- Grade 12 Advanced Functions Highest Average Award **2025**
- National Honour Roll and Distinction in University of Waterloo's Beaver, Fermat, Hypatia **2023 - 2025**
- Top 25% Distinction in COMC and University of Waterloo's Pascal, Fryer, Cayley, CSMC, Euclid, SIN **2023 - 2025**
- 8 Gold medals and a Scholarship in the IMFC **2022 - 2025**
- Grade 9 High Honours, Grade 10 Honours **2023 - 2024**
- First place in Skills Ontario Lego Robotics Competition **2022**
- First place in AMD Engineering Mathletics Competition, PEO York Chapter **2021**