

Aaron Dutta

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Executive Summary

A highly dedicated 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

Languages: Python, Java, Javascript, HTML5/CSS3, SQL, Swift

Frameworks/Platforms: AppKit, Flask, React, SwiftUI

Technologies/Tools: Docker, Figma, Git, MediaPipe, OpenCV, PyCharm, RESTful APIs, SQLite

Projects

ZoneZwitch — *Swift · Xcode · AppKit · REST API*

- Built a lightweight offline macOS menu bar application for fast, always-available timezone conversion between EST and IST
- Implemented bidirectional timezone conversion via slider-based interface, and a “Now” button for instant time display
- Integrated REST API to retrieve real-time timezone data, with automatic daylight-saving time adjustments

Personal Website — *HTML5 · CSS3 · Javascript · Bootstrap · Figma*

- Designed and developed a responsive multi-page portfolio website to showcase
- Translated Figma designs into clean, maintainable front-end code, ensuring accessibility and professional presentation
- Emphasized modular structure to support future expansion as new projects are added

Xap — *React.js · Python (Flask) · REST API*

- Developed a Flask-based web app to retrieve the most recent tweet by handle on a given date
- Delivered a clean form-driven React frontend with instant result display and fallback handling for no tweets
- Structured the application for future integration with Tailwind UI enhancements and cloud deployment

Flaskcards — *Python (Flask) · HTML5 · CSS3 · Bootstrap · Database Management*

- Developed a full-stack web application for creating, managing, and studying digital flashcards
- Implemented complete CRUD functionality with persistent database storage for user-generated question-answer pairs
- Designed a simple, interactive UI/UX with intuitive study and test modes, emphasizing simplicity, usability, and scalability

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

Experience

• Mathematics Mentor at Filix School of Education	2024 - Present
• 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
• Swim Coach at Olympian Swimming	2023 - 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 Advanced Functions & Calculus and Vectors Highest Average Course Awards	2025
• National Honour Roll & Distinction in University of Waterloo's Beaver, Fermat, Hypatia	2023 - 2025
• Top 25% Distinction in COMC & University of Waterloo's Pascal, Fryer, Cayley, CSMC, Euclid, SIN	2023 - 2025
• Grade 9 High Honours, Grade 10 Honour Roll, Grade 11 Honour Roll	2023 - 2025
• 8 Gold Medals & Scholarship in International Music Festival and Competition (IMFC)	2022 - 2025