

Shubho Mukherjee

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WORK EXPERIENCE

Toronto Metropolitan University – Metropolitan Aerospace & Combustion Hub March. 2023 – Present
Junior Developer Toronto, ON

- Actively involved in the development of the graphical user interface (GUI) utilizing Python for our liquid rocket engine.
- Utilized the PyQT framework to implement and enhance the GUI functionality.
- Personally designed and created custom widgets for the GUI.
- Played a role in shaping the overall design and user experience of the front end.

Toronto Metropolitan University – Metropolitan Aerospace & Combustion Hub March. 2023 – Present
Business Development Toronto, ON

- Managed sponsorship data, including updating and maintaining spreadsheets, email logs, and sponsorship resources.
- Engaged with potential sponsors such as faculties, student organizations, and corporations to discuss terms and conditions and secure invoices for sponsorship agreements.

Danforth CTI – Rocketry Club Nov. 2021 – May. 2022
Vice President Toronto, ON

- Founded and led the school's first rocketry club, which grew to over 100 members.
- Managed club operations and facilitated communication between sub-teams (Aerodynamics, Electronics, etc.) to ensure successful club events and projects.

PROJECTS

[Stop Sign Detection](#) | Python, NumPy, OpenCV March. 2023

- Developed a stop sign detection model using a sliding window approach and mean square error for similarity comparison.
- Implemented image pyramids to efficiently search for stop signs at different scales.

[Personal Website](#) | HTML, CSS Jan. 2023

- Created a visually appealing layout and design for portfolio.
- Implemented responsive design to ensure functions well on various screen sizes.

EDUCATION

Toronto Metropolitan University May 2026
B.Sc., Computer Science Toronto, ON

- 3.87 GPA
- Dean's Honors List 2023
- Entrance Scholarship Recipient

SKILLS AND AWARDS

Natural Languages: English, Bengali, Hindi

Programming Languages: Python, Java, HTML/CSS, SQL

Developer Tools: Git, GitHub, Trello

Other Skills: Microsoft Office, Excel (Pivot Tables, VLOOKUP, XLOOKUP), Tableau

Scholarships: Entrance Scholarship: 95%+ Admission Average (\$4000), Scholarship Renewal: 3.85+ GPA (\$1000)