

Nadim Mottu

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Summary — Third year Computer Science and Math undergraduate looking to gain hands-on experience in a team oriented environment, challenge myself and work on industry defining projects. I've been programming since I was 12 years old, a passion I developed in tandem with a strong focus on mathematics and design. My skills, choices and experiences reflect that I am a strong creative thinker, a good people person with an interest in developing useful and ethical technology. You may find some of my recent projects on my github @nadim-mott.

Skills

Languages: Java, Python, C, MIPS, GML, Lua

Web Dev: JavaScript, HTML, CSS, React, Next.js

Databases: PostgreSQL, Prisma, SQLite

Libraries: Java Swing, Numpy, SciPy, scikit-learn, JavaFX

OS: Debian, Ubuntu, Windows

Tools: Docker, NextCloud, Latex, excel, GIMP, Adobe Photoshop, Adobe Premiere

Education



University of Toronto

September 2022 – May 2026

Honours Bachelor of Science

Computer Science Specialist with a Focus in Theory of Computation, Minor in mathematics

- cGPA: 3.73

Courses Taken:

- Computer Science: Computer Organization, Software Tools and Systems Programming, Enriched Data Structures and Analysis, Software Design, Enriched Introduction to Theory of Computation, Foundations of Computer Science I&II
- Mathematics: Analysis I&II, Algebra I&II, Probability and Statistics I, Topology
- Breadth: Physics I, Computers and Society, Human Nature, The Graphic Novel

Courses in progress:

- Machine Learning, Artificial Intelligence, Programming on the Web, Databases, Graph Theory

Awards:

- University Of Toronto International Scholar Award - Faculty of Arts and Science (2022-2026)
- Dean's List Scholar in the Faculty of Arts & Science (2023-2024)
- Innis College Exceptional Achievement Award (2023-2024)

WS Washington International School

2014 – 2022

IB - Bilingual Diploma

- Total IB Grade: (41/45), Cumulative GPA: 6.86/7.00, Senior Year GPA: 7.00/7.00

IB Courses Taken:

- Higher level: Mathematics: Analysis and Approaches HL, Physics HL, Economics HL,
- Standard level: Language and Literature SL, Chemistry SL, English: Literature SL

Experience



Internal Drive Tech

June – August 2024

Instructor

Amazon HQ/American University — Washington, DC

- Taught children ages 7-9 basic coding skills and computer literacy through games like scratch, Lua (Roblox) and Minecraft
- Helped over 50 students develop projects over the course of one week making sure to highlight important software engineering practices such as testing, debugging, reviewing one another's work
- Explained the above skills and technical concepts such as boolean algebra at an elementary school level.
- Collaborated with other instructors to develop curriculums and filled in knowledge gaps in the case of individual students projects.

Toronto Climate Observatory

May – June 2024

Research Assistant

University of Toronto — Toronto, ON

- Collaborated with another undergraduate student to develop a research project using CMIP6 to predict changes in temperature in Toronto and how that might impact skating rink closures
- Documented and explored “the usability gap” and how to make climate data more usable to undergraduate students or people with only a basic understanding of climate science.
- Used common data analysis libraries for Python such as NumPy and Mat plot

- Led a team of 3-4 people canvassing door to door to rally the citizens of Virginia to pass a bill to reduce wasteful plastic packaging.
- Raised over helped \$9000 for the cause, was the highest performing Canvasser in the DC office.
- Trained new members

Highlighted Projects

Scriptorium

September 2024 – Present*CSC309 - Programming on the Web*

- Collaborated with a team to develop a website in React framework allowing users to develop and share their code.
- Provides isolation for different user projects.
- Allows for user account creation authentication, rating posts, reporting and more.
- Follows Rest best practices.

Jan 2001 – Present

- Maintained packages in Debian repositories
- Reviewed and sponsored packages on behalf of prospective Developers
- Resolved bugs reported in bug tracking system