LUCAS LOSTIE

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EDUCATION

McGill University *Expected: May 2026*

B.S. in Physics & Computer Science (Joint Honours)

Selected Coursework

PHYS 257 & 258	(Experimental methods 1 & 2)
COMP 252	(Honours Algorithms and Data Structures)
PHYS 251	(Honours Classical Mechanics 1)
COMP 206	(Introduction to Software Systems)

EXPERIENCE

Independent Projects

- Created centralized screening schedule of independent cinemas through web scraping.
- Utilized linguistic databases to inform color selection, enhancing text readability for individuals with dyslexia.
- Undertook 3D modeling to design mechanical parts for PLA printing and visualize physics simulations.
- Developed simple interactive web page.

Academic Projects

- Conducted and written reports for over 25 lab experiments, emphasizing data analysis and visualization.
- In depth statistical analysis of a team based innovation project. Strengthening collaboration, decision taking, planning and creative thinking.
- 3D modeling and printing physical objects (Helmholtz resonator) to measure precise data.
- Received Physics Makerspace training in using PLA and resin 3D printers and CNC machining with metal.
- Collaborated on multiple coding projects with a team, utilizing Git for version control and collaboration.

TECHNICAL STRENGTHS

Computer Languages	Python, Java, C, Bash
Tools	Vim, Emacs, Git, Jupyter Notebook, Autodesk Fusion, WebGL, LaTeX
Algorithm Design	algorithms, data structures, optimisation
Physics Concepts	classical mechanics, electromagnetism, thermodynamics
Computer Science Concepts	object oriented programming, database management
Research Skills	experimental design, data collection, data interpretation, scientific methodology
Language Skills	English (fluent), French (fluent), Japanese (Elementary proficiency), Spanish (B2)