

Rithika Silva

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📍 49 Mariah Street, P1A 4M6 North Bay, Canada



EDUCATION

Honours Bachelor of Computer Science,
University of Waterloo

09/2021 - 04/2026

- **UW coursework:** Object-Oriented Programming, Functional Programming, Imperative Programming, Algorithm Design, Data Abstraction.
- **Current GPA:** 3.94

High School Diploma, Chippewa Secondary School

09/2017 - 06/2021

- Graduated as Co-Valedictorian, Schulich and Loran nominee for school. Completed IB Chemistry SL, IB Math SL, and IB Music SL with a graduation average of 98%.
- Completed Shad in grade 10 at York University. Designed the apparel for the campus and became Co-Valedictorian.

HIGHLIGHT: FIRST ROBOTICS COMPETITION

FIRST Team 1305 Student Member

12/2017 - 08/2021

- Was student member on the Canadian team with the longest World Championship attendance streak (19+ year active streak). Led the team as Co-Captain, Business Manager, Robot Operator, Programming Lead, and Chairman's presenter. Was selected in 2019 as a Dean's List Semi-Finalist.
- Led several outreach events with attendances of over 100 people. Managed over 20 people.
- Currently "Mentor at Large" for the team.

REFERENCES

Nancy Dewar-Stenning, *Founding Mentor/Chairman's Mentor*, FIRST Team 1305
ndewarstenning@gmail.com

Kim Larivee, *IB Coordinator*, Chippewa Secondary School
kim.larivee@nearnorthschools.ca

SKILLS

- **Languages:** Python, Java, C, HTML/CSS, JavaScript, Racket
- **Libraries:** NumPy, SciPy, Pandas
- **Technologies/Tools:** Git, GitHub, Bootstrap Studio, VS Code, Vim
- **Operating Systems:** Windows, Linux (Kali)
- **Spoken Language:** English (written/oral), Sinhala (oral)
- **Other Tools:** Microsoft Office Suite

PROJECTS

FRC Robot "Canuck" (Java):

- FRC 1305's robot for the (cancelled) 2020 season.
- Used PID loops to autonomously track and shoot dodgeballs at 15+ m/s with a variance of 1".
- Received Quality Award on follow up 2021 season for both hardware robustness and defensive programming.

Jean the Algorithmic Art Bot (Python):

- Twitter bot the posts algorithmically altered images acquired using the Unsplash API to twitter using Twitter API.
- Algorithms include pixel sorts, glitching, swirling, etc...

Just Weather (HTML/CSS/JavaScript):

- Weather webapp that displays weather and an image of the respective weather gathered from Unsplash using their API.
- Uses OpenWeatherMap's Weather API.