

# Rithika Silva

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## EXPERIENCE

### 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 100+ people. Managed 20+ people.
- Currently remote mentor for the team.

## EDUCATION

### Candidate for Honours Bachelor of Computer Science, University of Waterloo

09/2021 - 04/2026

- **Relevant 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 International Baccalaureate Chemistry SL, Math SL, and Music SL with a graduation average of 98%.
- Completed Shad in 2019 at York University. Designed the apparel for the campus and became Co-Valedictorian.

## SKILLS SUMMARY

**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)

**Other Tools:** Microsoft Office Suite

**Soft Skills:**

- Design thinking exercised through leadership of community outreach events and management of FRC 1305.
- Extensive teamwork experience through 10+ community extracurricular groups.
- Passion for the growth mindset developed through hobbies and side projects.

## 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 hardware robustness and defensive programming.

### Jean the Algorithmic Art Bot (Python):

- Twitter bot that 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.