

# Isaac Yu

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## EXPERIENCE

### High School Programming Intern (Focused Ultrasound High School Summer Research Program)

Sunnybrook Research Institute | 2022

- Shadowed in lab experiments under the supervision of Andrew Frizado in the O'Reilly lab
- Created a pipeline that segments a spine data set (700+ spines) into stacks of three vertebrae and determines its acoustic properties using MATLAB
- Delivered a 5 minute research presentation of my project to the Focused Ultrasound Lab

### Business Development Executive

Hack The 6ix | 2023

- Leading the development of Toronto's largest summer wide hackathon by securing sponsorships, marketing and planning workshops

### AIM Program Manager

FCSS-FESC (Federation of Canadian Secondary Students) | 2021 - 2022

- Lead a team of 4 to release a financial literacy course uploaded on the Canadian Financial Literacy Database
- Developed a business consulting competition and was responsible for donations, speakers, judges and connecting with consultants who helped market and develop the program
- 200+ hours with FCSS-FESC

### AIM Program Coordinator

FCSS-FESC (Federation of Canadian Secondary Students) | 2020 - 2021

- Planned, organized, monitored, and promoted a 4 day virtual career conference that received 300+ registrations
- Communicated and coordinated with speakers through virtual meetings and emails
- Resolved critical issues in a timely manner including negotiation fails

### Summer Intern (full time summer job)

Scarborough Chinese Baptist Church | 2021

- Prepared content and activities for a 4 week long virtual program with 100+ registrations and a one week long in person camp
- Hired volunteers and lead training week with a team of interns
- Other responsibilities include creating simplified video lessons for children, volunteering for a food bank, and fundraising \$150 for a breakfast outreach program

### **Student Affairs Team Member**

Unionville Student Activity Council - Unionville High School | 2020 - present

- Constitutional and mandate revision (reform of elections and policies of student council)
- Manage activity funds and provide clubs with resources, promotion and assistance
- Lead monthly club meetings to discuss challenges, ideas and potential solutions

### **Crew Member**

Scarborough Chinese Baptist Church | 2020 - present

- Engages the group through active participation and initiative
  - Lead icebreakers to group activities such as Jeopardy to Amazing Race like competitions
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## **EDUCATION**

Unionville High School - Grade 9-12, 2019-present

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## **PROJECTS**

### [SPLAT! - 2D Platformer](#)

Developed and released a 2D mobile game on the Playstore using C# and Unity where users can play 30+ levels, play an endless mode which uses a maze generation algorithm, buy skins, and save their progress.

### [Procedurally Animated Spider](#)

Working on a spider which walks using procedural animations in C# and Unity where limbs bend realistically when walking over uneven terrains.

### [SPACE OUT! - Flashcard Game](#)

Developed for Clock Hacks 2022 in C# and Unity where users can create their own flashcard packs, and use them to play a spaced repetition flashcard game.

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## **SKILLS**

- Programming languages: Python, Java, C#, MATLAB, HTML, CSS, Javascript
  - Frameworks: Unity, React.js
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## **ACHIEVEMENTS**

- Grade 8 Valedictorian William Berczy Public School, 2018-2019
- Waterloo Pascal Math Contest: Top 25% of all competitors, 2020
- Waterloo Cayley Math Contest: Top 25% of all competitors, 2021
- Waterloo Canadian Computing Competition, Junior Division: Top 25% of all competitors, 2021
- Waterloo Fermat Math Contest: Top 25% of all competitors, 2022
- Introduction to Computer Science (Achievement Award), 2021-2022
- Clock Hacks - 1st Place Overall & Best Productivity/Time Saving Hack, 2022
- Unionville Honour Roll Student, 2019-2021