

Ishan Baliyan

[LinkedIn](#) | [GitHub](#) | <http://ishanbaliyan.me>

SKILLS

Languages: Java, Python, HTML, CSS, JavaScript

Frameworks/Tools: React, Node.js, TensorFlow, Keras, Arduino, Yaml

EDUCATION

University of Waterloo

Incoming Bachelor of Computer Science Student

- *Faculty of Mathematics Scholarship \$10,000*

Sacred Heart High School – Grade 12 (French Immersion)

Graduation June 2021

- Student Body Vice-President (elected) of High School.
- Team Captain for Relay for Life.

EXPERIENCE

Google Computer Science Summer Institute (CSSI)

Incoming Scholar · July 2021

- Summer Program is taught and organized by Google Software Engineers and staff, with focus on **JavaScript**.

Harvard University Wadduwage Lab

Remote Research Intern · July 2020 – Present

- Developing a **Python Deep Learning** algorithm using convolutional neural networks to denoise images of organisms.

UWaterloo Social and Intelligent Robotics Research Lab (SIRRL)

Research Assistant · July 2020 – Present

- Researching applications of Social Robotics in healthcare (under Prof. Dautenhahn).
- Conducting scoping review paper with team of Professors, and Researchers as the only high school student.

MVS Systems Inc.

Project Consultant (Part-time Job) · Aug 2019 – March 2020

- Contract Partnered with [United Nations](#)
- Built Autonomous systems on R&D prototype robot for detecting land mines in developing countries.
- Designed **Arduino** systems to command motors on robot vehicle in response to computer vision inputs.

ADDITIONAL EXPERIENCE

FIRST Robotics Competition

- **FIRST Robotics Team 2706** *Programmer for Autonomous systems · September 2018 – Present*
 - Programmed in **Java**, while using tools such as **GitHub**, Scrums, Kanban, and Gantt charts.
 - Trained in weekly code reviews with 15 Software Mentors from Shopify, Ciena, and more.
 - Placed as Division Finalists in the FIRST Robotics Competition World Championships (approx. **top 35 from 4000+ teams**) in 2018 and placed Provincials in 2019.
- **National FIRST Robotics Canada Youth Council** *Youth Council Rep. · September 2019 – Present*
 - One of 12 National representatives for the 25,000 members of the *FIRST Robotics Canada* organization.
 - Lead and Organize National initiatives including Hackathons, Conferences (+speaker), Summer camps, cleanups (featured in local news), and discussions with President of 3M Canada and other professionals.

SHAD Entrepreneurship Summer Program at Ryerson University

SHAD Fellow, Team Lead · July 2019

- Lived and studied at Ryerson University in downtown Toronto for a full month with daily lectures and workshops from Nobel Prize winners, renowned Professors, and major executives.
- Led team to invent battery recycling project that won **First Place** in Main Business competition (judged by Professors).

AWARDS AND ACCOMPLISHMENTS

- Approx. 99th percentile on SAT Math section and 97th percentile Overall on SAT International standardized test.
- ECOO Ontario programming competition semifinalist at Queen's University (both 2018 and 2019).
- Although program canceled from covid-19, selected for MIT LaunchX summer program to live/study at MIT (2020).

Interests: Skydiving at 13,500 feet, travelling to different countries, novice at chess.