Ishan Baliyan

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SKILLS

Languages: Java, Python, HTML, CSS, JavaScript
Frameworks/Tools: 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.