

Yash Arora

SOFTWARE ENGINEERING STUDENT · UNIVERSITY OF WATERLOO

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Skills

Languages: Python, Java, C, C++, JavaScript, HTML5, CSS3, \LaTeX

Frameworks: Arduino, RobotC, Node.js, p5.js, Processing.js, Bootstrap, Google AutoML Cloud Vision, Wolfram Alpha API

Additional Tools/Platforms: GitHub, GitLab, Linux, Software Engineering Tools (Violet UML, Gantt, Pert)

Education

University of Waterloo

CANDIDATE FOR BACHELOR OF SOFTWARE ENGINEERING (HONOURS)

Waterloo, ON

Sept 2019 - Apr 2024

Experience

Software Development Intern

HATCH CANADA

Toronto, ON

Jan 2019 - June 2019

- **Created prototypes** for how students' coding hints were managed and delivered to the user in **Java**.
- Coded solutions and documentation to practice problems in **Processing.js** and **p5.js**, which instructors would use as references while teaching coding principles.
- **Programmed** a system that delegated "skill" attributes to different problems, allowing users to find specific questions that require particular competencies they have developed.

Front-End Developer & Private Tutor

EXPERTMATH TUTORS

Richmond Hill, ON

June 2016 - May 2019

- Developed and maintained **www.expertmath.ca/** using **HTML5**, **CSS3**, and **Bootstrap**.
- Managed upkeep of the domain, as well as the hosting of the website.
- Taught Functions 11, Advanced Functions 12, Calculus/Vectors 12, Physics 11, Physics 12, to students at the Academic, AP, and IB levels during private tutoring sessions.

Webmaster

RICHMOND HILL HIGH SCHOOL STUDENT COUNCIL

Richmond Hill, ON

Sept 2018 - June 2019

- **Developed** and maintained **www.rhhsstuco.ca/** using **HTML5**, **CSS3**, **Bootstrap**, and **Javascript**.
- Programmed a QR-Code sign-in system in order to **automate** guest entry during events including Semi-Formal and Prom.

Vice President & Head of Coding

RHHS ROBOTICS CLUB

Richmond Hill, ON

Sep 2017 - June 2019

- Programmed using **RobotC** in preparation for **VEX Robotics** competition and assisted with the hardware design of the prototype.
- **Managed** the club **budget**, **delegated responsibilities**, and oversaw internal club operations.

Achievements

2018 **International Finalist**, DECA International Career Development Conference - Innovation Plan

Atlanta, GA, U.S.A

2018 **First Place**, PLYC "Pitch It!" Pitch Competition

Markham, ON, CA

2017 **First Place, Best Pitch, RBC #FutureMaker Innovation Award**, Toronto Hacks 2

Toronto, ON, CA

2017 **SHAD Fellow**, SHAD Canada

Ottawa, ON, CA

Projects

Thing

THACKS 2

- SMS based application that allows users to **access information from the internet without mobile data/internet access**.
- Uses Wolfram Alpha **natural language processing** to determine succinct responses to users' queries.
- Built in **Node.js** using **Wolfram Alpha**, **Twitter**, **Google Maps**, **Google News**, **Smmry**, **OpenWeatherMap**, and **Twilio APIs**.

Vysion

ELECTRIC CITY HACKS

- **AutoML visual recognition** project designed to assist those with visual impairments.
- Built in **Node.js** with the **Google Cloud Vision API**, **Clarifai**, and **OpenCV**.
- Determined users' surroundings and read out relevant text, objects, and environments from various machine learning databases.

Murmur

SOFTWARE ENGINEERING 101

- **Python** project that triangulates the locations of sounds over time to **generate heat-maps** and find quiet locations in a building.
- Performs sound analysis on **NumPy** data, and uses vector addition to determine the positions of the sounds with a **Raspberry Pi**.

Leonardo

HACK THE NORTH

- **Data analysis Android application** that allows business owners to find ideal locations for their businesses from transaction data.
- Built in **Node.js** using the **TD Da Vinci API** at **Hack the North 2018**.