Yash **Arora**

SOFTWARE ENGINEERING STUDENT · UNIVERSITY OF WATERLOO

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Skills

Languages	Python, Java, C, C++, JavaScript, C#, HTML5, CSS3, SQL
Frameworks	Node.js, Matplotlib, p5.js, Processing.js, Flask, Spark, Arduino, RobotC, Bootstrap
Machine Learning/Data	Google Cloud Vision, Wolfram NLP, AutoML, TensorFlow, Hadoop, Scikit-Learn, PyTorch
Tools/Platforms	GitHub, GitLab, Linux, AWS, R-Pi, Visual Studio, Software Engineering Tools (Violet UML, Gantt, Pert)

Experience

Software Development Intern
Toronto, ON

HATCH CANADA
Jan 2019 - June 2019

- Created **prototypes** for a framework that managed how coding hints were organized and delivered to users in **Python**.
- Automated a system that delegated "skill" attributes to problems based on sample solutions, allowing users to query the problem database by competency and saving about **$10 000**.
- Used **processing.js** and **p5.js** to code solutions and documentation to practice problems for over **35 900** students.

Back-End Developer
Richmond Hill, ON

EXPERTMATH TUTORS
June 2018 - May 2019

- Developed a **Java** program that automatically coordinated scheduling and anticipated finances.
- Eliminated the need for manual scheduling and allowing tutors to track expected income.
- Coded/maintained www.expertmath.ca using **HTML5**, **CSS3**, and Bootstrap, and managed hosting with cPanel.

Student Web Developer
Richmond Hill, ON

RHHS STUDENT COUNCIL
Sept 2018 - June 2019

- Programmed a **QR-Code sign-in system** which automated guest entry during events with over **2000** attendees.
- Coded a desktop application in **Java** that automated the scheduling of sporting activities such as tournaments.
- Developed and maintained www.rhhsstuco.ca using **HTML5**, **CSS3**, Bootstrap, and **Javascript**.

Projects

Thinq
Toronto Hacks 2

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

Vysion
Electric City Hacks

- **Visual recognition** project designed to assist those with visual impairments through the use of **machine learning**.
- Built in **Node.js** with Google Cloud Vision, AutoML, Clarifai, and OpenCV.
- Determines users' surroundings and reads out relevant text, objects, and environments from various **ML databases**.

Murmur
Software Engineering 101

- **Python** project that triangulates sounds over time to generate heat-maps and find quiet locations in buildings.
- Performs sound analysis on NumPy data obtained from **Raspberry Pi** modules, and uses **amplitude-based vector addition** to determine the positions of the sounds.

Leonardo
Hack the North 2018

- **Data analysis** application that allows companies to find ideal locations for their businesses from transaction data.
- Uses Hotelling's Principle to suggest locations with similar transaction activity as the desired business.
- Built in **Node.js** using the TD Da Vinci API at **Hack the North 2018**.

Education

University of Waterloo
Waterloo, ON

CANDIDATE FOR BACHELOR OF SOFTWARE ENGINEERING (HONOURS)
Sept 2019 - Apr 2024

Achievements

2018	**International Finalist**, DECA International Career Development Conference	*Atlanta, GA, U.S.A*
2018	**First Place**, PLYC "Pitch It!" Pitch Competition	*Markham, ON, CA*
2018	**SHAD Fellow**, SHAD Canada	*Ottawa, ON, CA*
2017	**First Place + Grand Prize, RBC #FutureMaker Innovation Award**, Toronto Hacks 2	*Toronto, ON, CA*
2017	**WolframOne Award**, Electric City Hacks	*Peterborough, ON, CA*