Yash Arora

SOFTWARE ENGINEERING STUDENT · UNIVERSITY OF WATERLOO

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Skills

Languages	Python, Java, C, C++, JavaScript/TypeScript, C#, Objective-C, HTML5, CSS3, SQL
Frameworks	NodeJS, Flask, ReactJS, AngularJS, Django, Processing.js, Arduino, RobotC, Bootstrap
Tools/Platforms	Git, Unix/Linux/Bash, NoSQL/MongoDB, AWS, Raspberry Pi, Visual Studio

Experience

Software Development Intern
Toronto, ON
HATCH CANADA
Jan 2019 - June 2019

- Created **prototypes** for a framework that managed notification delivery to users in **Python**.
- Automated a system for users to query the problem database by required competencies, saving **$10 000** annually.
- 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 allowed tutors to track expected income.
- Coded/maintained www.expertmath.ca using **HTML5**, **CSS3**, and Bootstrap, and managed hosting with cPanel.

Student Full Stack Developer
Waterloo, ON
RICHMOND HILL HIGH SCHOOL
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
yasharora.com/thinq

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

Vysion
yasharora.com/vysion

- **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
yasharora.com/murmur

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

Leonardo
yasharora.com/leonardo

- **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 - GPA: 3.82
Sept 2019 - Apr 2024

Extracurricular

2020	**Machine Learning Developer**, UWaterloo Aquadrone	*Waterloo, ON, CA*
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*