# Yash Arora

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## Education

**University of Waterloo**
*Bachelor of Software Engineering,*
*2019 - 2024 (Anticipated)*
**3.92** GPA

## Skills

| | |
|---|---|
| **Languages** | Python, Java, C, C++, JavaScript, C#, HTML/CSS, SQL |
| **Technologies** | Node.Js, Angular, React, PostgreSQL, MongoDB, Flask, Django, Tensorflow, Scikit-Learn, PyTorch |
| **Tools** | Git, Bash, Bitbucket, JIRA, Linux/UNIX, Postman, AWS |

## Experience

**Software Engineer |** Localintel - *Seattle, WA*                    May 2020 - Aug 2020
- Led development of internal management portal in **Angular 10** to increase product outreach.
- Implemented authentication with **ASP.NET (C#)** and role-based authorization with JWT to secure client data.
- Wrote **Python** and **Node.js** scripts to update data on production database using **PostgreSQL** and **MongoDB**.
- Leveraged Airflow for scheduled automation of scripts, **saving ~34 weekly development hours**.
- Created **REST API** routes and endpoints to manage CRUD of client maps, layers, and geographical data.
- **Reduced load times by 60%** for GIS data mapping software using **RxJS** observables.
- Onboarded and updated map data for clients including Calgary, Seattle, and Cleveland governments.
- Developed application that tracks job market growth for the 18 largest industries in the US.

**Machine Learning Developer |** Waterloo Aquadrone - *Waterloo, ON*          Jan 2020 - Apr 2020
- Created **ML models** to classify objects underwater using **TensorFlow** and Keras implementations of YOLOv3.
- Programmed **Python** scripts to automate the labelling process of large image data sets.
- Converted functional programs to object-oriented code for integration with various drone software components.

**Software Developer |** Hatch Canada - *Toronto, ON*                Jan 2019 - June 2019
- Created and demoed prototypes for a notification delivery system in **Python**.
- Improved application functionality by allowing users to query a problem set database by required skills.
- Wrote solutions and documentation for coding problems, reaching **over 35,900 students.**

## Projects

**Ohana |** React, Node.js, Firebase                                   itsohana.com
- Online **collaborative code editor** designed to allow students to practice programming over the web.
- Implemented real-time syncing between text editor and whiteboard for up to 1000 simultaneous users.

**Thinq |** Node.js, Wolfram Alpha, Twitter, Smmry, OpenWeatherMap, Twilio        yasharora.com/thinq
- **Virtual assistant** that allows users to access information from the internet without WiFi/mobile data through SMS.
- Optimized response time and summarized reponses using **natural language processing**.
- Demoed on International stages in Orlando, FL, and Altanta, GA.
- Awarded **prize funding** on behalf of Scotiabank, RBC Royal Bank, and Michael Wekerle of Dragons' Den.

**Vysion |** Node.js, Google Cloud Vision, AutoML, Clarifai, OpenCV          yasharora.com/vysion
- **Visual recognition** project designed to assist those with visual impairments through the use of **machine learning**.
- Determined users' surroundings and read out relevant text, objects, and environments.

**Murmur |** Python, Raspberry Pi                                   yasharora.com/murmur
- **Python** project that triangulates sounds over time to generate heat-maps and find quiet locations in buildings.
- Performed **server-side sound analysis** on data obtained from Raspberry Pi modules.
- Created amplitude-based vector addition algorithm to determine the positions of the sounds.