Yash Arora

YashArora0606 yasharora.com
YashArora0606 (647) 575 4096
yasharora0606@gmail.com

Education

University of Waterloo
Bachelor of Software Engineering,
2019 - 2024 (Anticipated)
3.98 Term GPA (93% Avg), **3.91** CGPA

Skills

Languages	Python, JavaScript, C++, C#, Java, C, HTML/CSS, SQL
Technologies	Node.js, Angular, React, Flask, Django, .NET, Spring, Ruby on Rails, Tensorflow, PyTorch, AutoML, OpenCV
Tools	PostgreSQL, MongoDB, Git, Linux, UNIX, Firebase, Postman, AWS, Jenkins, Docker, Kubernetes, JIRA

Experience

Software Engineer | Carbonite - *Boston, MA (Remote)*　　　　　　　　　　Jan 2021 - Present

Software Engineer | Localintel - *Seattle, WA*　　　　　　　　　　May 2020 - Aug 2020
- Led development of internal management portal in **JavaScript** (**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**.

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

Software Developer | Hatch Canada - *Toronto, ON*　　　　　　　　　Jan 2019 - June 2019
- Improved application functionality by prototyping a notification delivery system in **Python (Django)**.
- Wrote solutions and documentation for coding problems, reaching **over 51,000 students.**
- Created interface to allow users to query database from internal portal using HTML5/CSS3 and **JavaScript**.

Projects

Ohana | React, Node.js, Socket.IO, 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 (NLP)**.
- 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.