

# Yash Arora

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## Education

### University of Waterloo

Sept 2019 – Apr 2024

Bachelor of Software Engineering, Honors

3.94 GPA (91% Cumulative Average, Dean's Honors List)

- Software Engineering Society Vice President, B.P. Dammizio Scholarship, President's Scholarship of Distinction.
- Differential Equations **98%**, Software Engineering Methods **97%**, Software Engineering Principles **94%**.

## Skills

**Languages:** Python, C++, C, JavaScript, TypeScript, Java, Go, SQL, Ruby

**Technologies:** GraphQL, Git, MongoDB, Jenkins, AWS, Kubernetes, Docker, Redis, React, Node.js, Express, RabbitMQ

## Experience

### Bloomberg

Software Engineer Intern – Fixed Income Trading Analytics

New York, NY | May 2022 – Aug 2022

- Designed and implemented a scalable **distributed processor** for fixed income ETF calculations to parallelize cashflow aggregation tasks using RabbitMQ and Python, increasing throughput by **~1500%**.
- Upgraded an ETF analytics engine using C++ to handle ad hoc requests, serving **~65,000** price/yield requests per day.
- Developed an anomaly detection service for constituent bond data to prevent publishing inaccurate market values.

### Shopify

Software Engineer Intern – Headless Storefronts

Toronto, ON | Sept 2021 – Dec 2021

- Implemented **multithreading** for headless storefront payments using Go, achieving an average verification time of **< 50 ms**.
- Created a dashboard using React and TypeScript to display deployment statuses for stores hosted on Oxygen infrastructure.
- Deployed the [Hydrogen Developer Preview](#) with Ruby on Rails, TypeScript, React, and GraphQL for Shopify Plus Merchants.
- Built an open-source readable time library to Quilt using TypeScript, downloaded by **~45,000 developers**.

### Carbonite

Software Engineer Intern

Toronto, ON | Jan 2021 – Apr 2021

- Led the development of a backup management platform using React, Node, and SQL to monitor over 300,000 active servers.
- Optimized a [CI/CD Pipeline](#) through parallelization using Jenkins and Groovy to reduce server portal build times by **~78%**.
- Deployed an API to automatically configure new computers for backups, decreasing user onboarding times by 20%.

### Localintel

Software Engineer Intern

Toronto, ON | May 2020 – Aug 2020

- Created a visualization tool with Angular and jQuery to display logistics and accessibility statistics for US infrastructure.
- Built a data management portal using Node.js, Express, and Angular to automatically perform real-time client map updates.

### Hatch

Software Developer Intern

Toronto, ON | Jan 2019 – June 2019

- Designed a notification delivery service using Python and GraphQL, increasing user retention on the learning platform by 14%.

## Projects

**UW Aquadrone** – Autonomous Underwater Drone

[github.com/waterloo-aquadrone](https://github.com/waterloo-aquadrone)

- Led a team of developers on the computer vision team to build a cognitive neural network for underwater object recognition.
- Programmed data preprocessing and augmentation scripts for 43,000 images in Python to train a real-time image classifier.

**Thing** – Internet-Free Virtual Assistant

[yasharora.com/thing](https://yasharora.com/thing)

- Developed a virtual assistant to bring search, weather, and news data to people without affordable mobile internet access.
- Demoed to private investors at International Career Development Conferences (ICDC) in Orlando, FL and Atlanta, GA.
- Received funding from the Royal Bank of Canada, Scotiabank, and former Dragons' Den Investor Michael Wekerle.