Yash Arora

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Education

University of Waterloo **Sept 2019 – Apr 2024**

Bachelor of Software Engineering, Honors **3.94 GPA** (**90%+** 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](https://www.bloomberg.com/)

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](https://www.shopify.com/)

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](https://hydrogen.shopify.dev/) 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](https://www.carbonite.com/)

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](https://yasharora.com/cicd.pdf) 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](https://www.ecdev.org/)

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](https://www.hatchcoding.com/)

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](https://github.com/Waterloo-Aquadrone/aquadrone-core) – Autonomous Underwater Drone [**github.com/waterloo-aquadrone**](http://www.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.

[Thinq](https://devpost.com/software/thinq/) – Internet-Free Virtual Assistant [**yasharora.com/thinq**](http://www.yasharora.com/thinq)

* 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.