Yash Arora

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Experience

[Citadel](https://www.bloomberg.com/) Securities

Software Engineer Intern **New York, NY | June 2023 – Aug 2022**

* Working on low-latency/high-throughput distributed systems for Citadel Execution Services (CES).

[Jane Street](https://www.janestreet.com/)

Quantitative Trading Intern **New York, NY | Apr 2023 – June 2023**

* Performed quantitative research to improve trading strategies as part of the options trading desk.

Software Engineer Intern **New York, NY | Jan 2023 – Apr 2023**

* Worked on scalable real-time systems using OCaml for the domestic (U.S.) ETF trading desk.

[Bloomberg](https://www.bloomberg.com/)

Software Engineer Intern **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 **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.

[Carbonite­­­­](https://www.carbonite.com/) (Acquired by OpenText)

Software Engineer Intern **Toronto, ON | Jan 2021 – Apr 2021**

* Led the development of a backup management platform using JavaScript and SQL to monitor over 300,000 active servers.
* Deployed an API to automatically configure new computers for backups, decreasing user onboarding times by 20%.

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.

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 President, B.P. Dammizio Scholarship, President’s Scholarship of Distinction.
* Software Design & Architecture: **98%**, Differential Equations: **98%**, Software Engineering Methods: **97%**.

Skills

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

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