

# Yash Arora

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## Experience

### Citadel Securities

Software Engineer Intern

New York, NY | June 2023 – Aug 2022

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

### Jane Street

Quantitative Trader Intern

New York, NY | Apr 2023 – June 2023

- Performed quantitative research and analysis to improve trading strategies as part of the options trading desk.

### Jane Street

Software Engineer Intern

New York, NY | Jan 2023 – Apr 2023

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

### Bloomberg

Software Engineer Intern

New York, NY | May 2022 – Aug 2022

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

### Shopify

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](#) with Ruby on Rails, TypeScript, React, and GraphQL for Shopify Plus Merchants.

### Carbonite (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 – 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.
- Wrote data preprocessing and augmentation scripts for 430,000 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.
- Pitched to investors and received funding from the Royal Bank of Canada, Scotiabank, and entrepreneur 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