

# Arya Patel

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## EDUCATION

### University of Waterloo

*Computer Science & Finance, Double major*

- Courses: Designing Functional Programs and Algorithm Design and Data Abstraction.

Waterloo, ON

*Average: 88%*

## SKILLS

**Languages:** Python, C#/C++, Java, JavaScript, Typescript MySQL, HTML, CSS, L<sup>A</sup>T<sub>E</sub>X, Racket.

**Frameworks/Tools:** React, Node.js, Flask, Figma, VS Code, PyCharm, IntelliJ IDEA.

**Libraries:** Pandas, NumPy, Matplotlib

## EXPERIENCE

### JPMorgan Chase & Co.

June 2023 - August 2023

*Software Engineering Virtual Experience - Remote/Online*

- Interacted and created a system to **analyze** stock price data feed using **Python**.
- Utilized **Perspective**, a JPMorgan Open Source Software, to deliver **actionable** insights in real time by using **React** and **Typescript**
- Created a visual representation of stock prices for trader's dashboard with **Perspective**.

### Sai Dham Food Bank

July 2022 - August 2022

*Marketing & Sponsorship Associate*

- Managed a monthly budget of \$7,000 for paid **SEO** posts which generated **\$19,000** worth of donations/sponsorships.
- Streamlined reporting of social media **KPIs** for each channel, including engagement, followers, leads, and **ROI**.
- Handled social media platforms and accounts, maintaining a upload schedule and **increase following** by 12,000+
- Made videos and presentations used in a live presentation in front of **5,500 people** at Nathan Phillips Square.

## PROJECTS

### Promptopia | Javascript, Typescript, Next.js 14, HTML/CSS, Git

- Developed a **fullstack (CRUD) based Next.js** application
- Implemented a structured **class-based framework**, encapsulating program features, and utilized **databases** to securely store and retrieve data, **ensuring user privacy**.
- Employed performance **optimization** techniques such as **CSS and JavaScript minification** to improve loading times and overall website performance.

### Robo-Advisor | Python, Pandas, NumPy, Matplotlib, Git

- A **quantitative analysis script** that generates the least volatile portfolio given arbitrary stocks.
- **Decreased runtime 50%** by implementing **multithreading, queues**, and recursion to speed up requests from AlphaVantage API.
- Generated a portfolio with **over 40% less volatility** compared to a benchmark
- Integrated a **five-hundred thousand iteration** Monte Carlo simulation that runs in as little as **15 seconds** to accurately predict portfolio expected returns.

## ACHIEVEMENTS AND CERTIFICATES

### BigQuery for Machine Learning

*GDG Cloud Toronto*

Toronto, ON

*December 1, 2019*

### DECA ICDC

*Canadian Champion (1st out of 6200); International Top 10 Medalist (8th out of 26000)*

Orlando, FL

*May 2023*