



Arya Patel

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SKILLS

Languages: Java, Python, C#, JavaScript, C, Typescript, HTML, CSS, L^AT_EX, Racket

Libraries: Pandas, NumPy, Matplotlib

Frameworks/Tools: Git, React, Node.js, Flask, Bootstrap, Figma, MySQL, AWS, VS Code

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**
- Delivered market statistics **11% quicker** to staff members by implementing **React** and **TypeScript** into Perspective, a JPMorgan **Open Source** software
- Created comprehensive test suites using Mocha and Chai to reduce intermittent issues by **35%**

Westend

March 2022 - September 2022

Freelance Full-Stack Developer - EasyCheckout

- Implemented an online checkout option as a solution to reduce in person traffic, increased sales by **25%**
- Developed a **full-stack** web application using **Python, JavaScript, Flask, MySQL, HTML/CSS** and **Bootstrap** to execute online orders and allow user interaction
- Obtained a **4.76/5** customer satisfaction rating for EasyCheckout by analyzing customer reviews and ratings

PROJECTS

Promptopia | *JavaScript, TypeScript, Next.js, HTML/CSS, Git*

- A **full-stack (CRUD)** based **Next.js** application
- Implemented a **class-based framework**, encapsulating program features, and utilized **MongoDB** 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
- Implemented **multi-threading**, **queues** and recursion to speed up requests from **RESTful APIs**, resulted in a **decreased runtime** of **50%**
- Consistently generated a portfolio with **over 40% less volatility** compared to the S&P500
- Integrated a **five-hundred thousand iteration** Monte Carlo simulation that runs in as little as **15 seconds**

ACHIEVEMENTS AND CERTIFICATES

BigQuery for Machine Learning

Toronto, ON — December 2019

Hack the North Finalist

Waterloo, ON — September 2022

DECA ICDC

Orlando, FL — May 2023

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

EDUCATION

University of Waterloo

Waterloo, ON

Candidate for Bachelor of Computer Science & Finance, Double major

Average: 88%

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