Arya Patel

 aryap.xyz   github.com/Arya-P05   linkedin.com/in/arya-pa   arya.patel2354@gmail.com

Skills

Languages: Python, C#, Java, JavaScript, C, Typescript, HTML, CSS, LaTeX, Racket

Libraries: Pandas, NumPy, Matplotlib

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

Education

University of Waterloo — Waterloo, ON

Candidate for Bachelor of Computer Science & Finance, Double major — GPA: 4.0
- Courses: Designing Functional Programs and Algorithm Design and Data Abstraction.

Experience

JPMorgan Chase & Co. — June 2023 - August 2023

Software Engineering Virtual Experience - Remote/Online
- Built a robust internal system tool utilizing **Python** scripts utilized to analyze stock price data feeds and reports
- Successfully pushed **React** and **TypeScript** components 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
- Developed a **full-stack** web application using **Python, Flask** and **MySQL** to execute online room reservations
- Implemented an online checkout option as a solution to reduce in-person traffic, increased sales by **25%**
- 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, coupled with **React Hooks** and **GraphQL** technologies
- Achieved a **20% reduction** in page load times through **code refactoring**, allowing for exceptional scalability
- Architect and built an **OOP**-based framework, and utilized **MongoDB** to securely store and retrieve user data
- Employed **CSS and JavaScript minification** to optimize loading times and overall website performance **by 4%**

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 reduce request runtime from **RESTful APIs** by **50%**
- Consistently generated a portfolio with **over 40% less volatility** compared to the S&P500 and NASDAQ
- Integrated a **five-hundred thousand iteration** Monte Carlo simulation that runs in **15 seconds** or less

Chatter | *React, Node.js, JavaScript, Express.js, Socket.io*
- Developed a real-time **React** and **Socket.io** chat application for bidirectional communication between users
- Constructed the backend using **Node.js** and **Express.js**, achieving a **30%** improvement in server response time
- Utilized **JavaScript ES6+** features to reduce code complexity by **25%** and facilitate improved maintainability
- Implemented user authentication (**OAuth**), preventing unauthorized access and ensuring data security

Achievements and Certificates

BigQuery for Machine Learning	Toronto, ON — December 2019
Hack the North Finalist	Waterloo, ON — September 2022
DECA ICDC (8th out of 26000)	Orlando, Fl — May 2023