PARTH PATEL

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EDUCATION

Brock University   St. Catharines,Ontario
Bachelors of Science in Computer Science   January 2024
Relevant Classes: Advanced Data Structures, Advanced Algorithms, Robotics   GPA: 3.9 / 4.0
Scholarships & Awards: Brock Entrance Scholarship, Dean's List 21', 22'

TECHNICAL SKILLS

- Languages: Java, C/C++, Python, HTML5, JavaScript/Typescript, CSS, ARM Assembly
- Frameworks: React, MongoDB, Express, Node.Js, MapKitJS, Flutter
- AI: Pytorch, Pandas, NumPy, TensorFlow, Google Speech-to-Text, DeepAI text summarizer

EXPERIENCE

Wealthsimple   **Toronto, Ontario**
Software Engineering Intern, Data Machine Learning Platform   May 2022 – September 2022
- Executed a cost savings plan by building an internal ETL tool using **Python** and **FastAPI** to plug into Workato and streamlining the data pipelines process saving the company up to **$60,000/year**
- Developed a full stack application for data unmasking requests and the company's data masking solution (Satori) that increased productivity and reduced the team's maintenance burden by **20hr/week**
- Improved performance of Docker containers for local development environment by **~20%** by reducing Image Size and optimizing Dependency Trees creating faster Docker image build times
- Increased productivity up to ~2hr/day by creating **CI/CD Pipelines** for different Github Repositories to automatically test commits and deploy them in production.

Ministry of Public and Business Service Delivery   **Toronto, Ontario**
Data Analyst Intern   September 2021 – December 2021
- Created server availability dashboard that linked to internal APIs and fetched data from Azure Data Factory using **PowerBI** resulting in an increase in incident coverage by **56%**
- Reduced bottleneck in operational steps by enhancing existing data pipelines in Azure Data Factory which increased the performance of automated data extraction and transformation by **~24%**
- Provided backend support to create an API management tool to manage end points that plugged into Azure Data SQL warehouse, increasing security across the organization

PROJECTS

Group Crypto Trading Bot   **January 2022**
[Python, Flask, MongoDB]
- Developed a group trading solution for Crypto.com using a single instance on discord by leveraging **discord APIs**, and trade using an automated buy/sell option with a price grid setup for the group resulting in increased APR by **~10%**
- Utilized Machine Learning (Neural Network) Model to predict the best price to buy at or to predict the new price for the next day based on 60 days of sequential data

Visualization Tool-Map/ Route mapping and Navigation   **November 2022**
[MapKitJS, TypeScript, React.js]
- Created a socket-based client-server application that allows users to navigate and visualize trips in the niagara region
- Reduced buffering by **87%** by configuring server to serve range requests and further reduced it to real time by caching.
- Created a ML Model to analyze local traffic patterns to show best routes and give an accurate ETA for the trip.

VOLUNTEERING AND LEADERSHIP

Brock Computer Science Club (CSC)   **January 2023 - Present**
Executive, Projects and competitive Programming

Hindu Student Association Club (HSA)   **January 2022 - Present**
Co-Founder / Treasurer