PARTH PATEL

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EDUCATION

Brock University   **St. Catharines,Ontario**
Bachelors of Science in Computer Science Co-op   April 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, Express, NodeJS, MapKitJS, Flutter, Flask, FastAPI
- 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 using **React** and **Flask** 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%** through 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%**
- Enhanced existing data pipelines to reduced bottleneck in operational steps in Azure Data Factory,increasing 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

Visualization Tool-Map/ Route mapping and Navigation   **November 2022**
[MapKitJS, TypeScript, ReactJS]
- 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.

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

VOLUNTEERING AND LEADERSHIP

Brock University - Brock Computer Science Club (CSC)   **St. Catharines, Ontario**
Executive, Projects and competitive Programming   January 2023 - Present

Brock University - Hindu Student Association Club (HSA)   **St. Catharines, Ontario**
Co-Founder / Treasurer   January 2022 - Present