PARTH PATEL

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EDUCATION

Brock University   St. Catharines, Ontario
Major: Computer Science   GPA: 87/100 (3.3/4.0)
Expected Graduation: January 2024
Relevant Classes: Advanced Data Structures, Advanced Algorithms, Neural Networks, Robotics, Software Engineering
Honors/Awards: Dean's List 2021 - 2022
Scholarships: Brock Entrance Scholarship

EXPERIENCE

WealthSimple   Toronto, Ontario
Software Engineer 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 (within 2 weeks) 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
• **Created** CI/CD Pipeline for different GitHub Repositories to automatically test commits and deploy them in production improving productivity by up to **~2hr/day**
Tools: Airflow, Docker, CircleCi, AWS, Python, Pandas, Flask, NodeJs (ExpressJS), ReactJs, CSS, Typescript, Jira, SQL, MySQL, BASH, Java, C/C++, git

Ministry of Government and Consumer Services   Toronto, Ontario
Data Analyst, ITS   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%**
• **Deployed** and **managed** virtual machine instances that were served to clients using RedHat Ansible and automated data processing tasks resulting in an increase in operational productivity
• **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
Tools: Azure Web Services, Pandas, NumPy, Matplotlib, SAS, PowerBI, Python, RedHat Ansible, SQL

PROJECTS

Group Crypto Trading Bot   January 2022
• **Developed** a group trading solution that helped to trade on Crypto.com using a single account, as well as trade using an automated buy/sell trading option to help trade in real time using price grid setup by the group resulting in **increased APR** by **~10%**
• **Utilized** Machine Learning (Neural Network) Model to predict the best price to buy the coin at or to predict the new price for the next day based on 60 days of sequential data
Tools: Python3, Web Sockets, Discord API, TensorFlow, Flask, MongoDB

Lecture Notetaking Buddy   February 2022
• **Developed** a Chrome extension to take lecture notes from a live session with support for multiple languages and platform independent.
• **Increased** performance by **~70ms** by implementing a dual communication channel of http requests and web sockets.
Tools: Node.js, Web Sockets, Google Speech-to-Text, DeepAI text summarizer, HTML/CSS, JavaScript

Visualization Tool-Map/ Route mapping and Navigation   November 2022
(React-Node-MapKit)
• **Created** a socket-based client-server application that allows users to navigate and visualize trips on the map of St. Catharines
• **Reduced** buffering by **87%** by configuring server to serve range requests and further reduced it to **real time** by caching.
• **Created** a Machine learning Model to analysis local traffic patterns to show best routes and give an accurate ETA for the trip.
Tools: MapKit JS, HTML/CSS, TypeScript, React.js

SKILLS

Programming Languages: Java, C/C++, Python, HTML5, JavaScript/Typescript, CSS3, MATLAB, ARM, Assembly Language
Frameworks & DBs: NodeJS, ExpressJS, AJAX, REST API, React, MongoDB, Git, Microsoft Azure
Machine Learning: PyTorch, Pandas, NumPy, Matplotlib