MOHAN VASHIST

TECHNICAL STRENGTHS

Programming Languages Software & Tools Python, JavaScript, C/C++, Java, Bash, SQL HTML 5,CSS 3, Latex, React, React Native, MongoDB, Unix, Jenkins, Docker, Ansible, Neo4j, Flask, FastAPI, Git, Express

EDUCATION

University of Toronto

September 2017 - Present (Third year) Cumulative GPA: 3.3

Major in Computer Science, minor in Statistics and Economics.

WORK EXPERIENCE

National Bank of Canada, Toronto

Software Engineer

January 2019-August 2019 Python, Java, Agile

- Worked with the **Securities Lending** team and follwed the **agile methodology** to create and update software used to inform stakeholders about **fees and positions**
- · Wrote **Python** code that **automated** compliance tasks increasing productivity and reliability by 15%
- · Fixed production server to reduce the downtime by 100% and increase efficiency for the entire team

OPEN SOURCE CONTRIBUTIONS

Surpriver Python, Machine Learning

Find high moving stocks before they move using anomaly detection and machine learning

• Contributed to a project on Github which has over 750 stars by adding support for Crypto curriences as well as fixing undiscovered bugs

RESEARCH PROJECTS

Texture Synthesis

Python, Computer Vision

Expand and fill an image to extend what it looks like seamlessly

- Research project focused on texture synthesis by non parametric sampling adapted from researchers at UC Berkley
- Implemented an **efficient Python algorithm** that utilizes the techniques of texture synthesis, thus enhancing upon the research from UC Berkley

PROJECTS

CryptoViz

Python, JavaScript, React

Watch list and live prices for Crypto Currencies

- Built **High Performance** Python back end that utilizes the **FastApi framework** and the **Uvicorn ASGI server**
- Created an elegant front end that is built with **React** and integrates the **TradingView** charting library

Planit Python, JavaScript, React Native, Agile Itinerary and trip planning mobile application for both iOS and Android

- Lead a team, gave technical directives and followed the agile methodology to produce a cross platform Android and iOS using React Native
- Integrated multiple Apis including the Google Places, and Google maps Api with a Flask backend.

Personal Website TypeScript, React, Next.js, Serverless Functions, GitHub API Personal Website which hosts a showcase for my projects and articles written

- Used Serverless Functions to fetch my repos and their stats using the GitHub API
- Followed material design patterns