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MOHAN VASHIST

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TECHNICAL STRENGTHS

Programming Languages	Python, JavaScript, C/C++, Java, Bash, SQL
Software & Tools	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)*
Major in Computer Science, minor in statistics and economics. Cumulative GPA: 3.3

WORK EXPERIENCE

National Bank of Canada, Toronto January 2019-August 2019
Software Engineer *Python, Java, Agile*

· Worked with the **Securities Lending** team to create and update software used to inform stakeholders about **fees and positions**
· Wrote **Python** code that **automated** compliance tasks

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 500 stars** by adding **support for Crypto curriences** as well as **fixing undiscovered bugs**

RESEARCH PROJECTS

Texture Synthesis **Python**
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 an 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 as well as articles I write

- Used Serverless Functions to fetch my repos and their stats using the GitHub API

- Followed material design patterns