

MOHAN VASHIST

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WORK EXPERIENCE

Hillsdale Investment Management, Toronto
Python Developer

February 2022-Current
Python, TypeScript, SQL

- Developed and scaled ETL processes to **ingest millions of rows of real-time financial data**, calculating and displaying critical financial metrics for key stakeholders to facilitate informed decision-making.
- Contributed to the development of a new **simulation engine** in Python to enhance **trading strategy simulations** for quantitative researchers, resulting in the engine being widely adopted within the company.
- Developed and maintained a **back testing engine** in Python that enhanced the ability of quantitative researchers to **backtest and stress test trading strategies** boosting analysis efficiency by 25%.
- **Led the development** of tools to generate high-quality client reports, enhancing reporting speed by 40% and improving institutional client satisfaction.
- Developed and maintained a **user-friendly web application using Angular**, enhancing the firm's tools interaction and reports/documents generation process, leading to improved user experience.

Internship, DBRS Morningstar, Toronto
Software Engineering Internship

January 2021-August 2021
C#, JavaScript, SQL

- Created a new and more efficient **full stack** application for the **Credit Ratings** team decreasing page **loading speed** by half.
- Improved the **stability** of legacy and new applications through **data cleanup(SQL)** and bug fixes

Internship, National Bank of Canada, Toronto
Software Engineering Internship

January 2019-August 2019
Python, Java, Agile

- Wrote **Python** code that **automated** compliance tasks and informed stakeholders about **fees and positions**, increasing productivity and reliability by 15%
- Fixed production server to **reduce the downtime** by 100% and increase efficiency for the entire team

EDUCATION

University of Toronto

September 2017 - April 2022

Major in Computer Science, minor in Statistics and Economics

CFA Level 1

Completed CFA Level 1 in November 2023, covering key topics such as regression, probability distributions, data organization and visualization, sampling and estimations, and hypothesis testing.

PROJECTS

Cleanlist.ai, Toronto

February 2024-May 2024

- Spearheaded the development of a **machine learning-driven lead generation application**, supporting seamless integration and scalability for business applications.
- Mentored a team of 4 developers, implementing best practices in Python and TypeScript for backend and frontend workflows.

Personal Website

TypeScript, React, Next.js, Serverless Functions, GitHub API

Personal website featuring a showcase of my projects and insights about my background and experience.

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

TECHNICAL STRENGTHS

Programming Languages
Software & Tools

Python, JavaScript, C/C++, Java, Bash, SQL
HTML 5, CSS 3, React, React Native, MongoDB, Unix,
Jenkins, Docker, Kafka, Ansible, Neo4j, Flask, AWS, Azure, GCP, Git