

Maanav Garg

maanavgarg@icloud.com | (647) 643-6264
Toronto, Ontario

Personal Website: maanavgarg.com
LinkedIn: [linkedin.com/in/maanavgarg](https://www.linkedin.com/in/maanavgarg)
Github: github.com/Maanav-G

Education

McMaster University

B.A.Sc. Honours Computer Science - GPA: 3.94/4.0

Hamilton, Ontario

Expected April 2022

Work Experience

Microsoft

Software Engineer Intern

Seattle, Washington

May 2020 - August 2020

- Developed an interactive telemetry based dashboard using **C#** with **ASP.NET** and **JavaScript** for Visual Studio's extension ecosystem.
- Leveraged **Kusto** and **SQL** for extracting and engineering data by translating extension telemetry into digestible information and processing that data into an **Azure SQL Database** using an **Azure WebJob** that runs periodically (1 hour) to append all new data.
- Designed and implemented over 15 different components for the dashboard's UI using **ReactJS** and **TypeScript**.
- Implemented security protocols to protect the dashboard's server and end-users from malicious activities using **Azure KeyVault** and **Application Gateway**.

Deloitte

Consulting Analyst

Toronto, Ontario

January 2020 - April 2020

- Consulted client-side for a large aviation conglomerate on a 'Loyalty Rewards' program that was delivered ~2 sprints earlier than projected.
- Acted as the primary functional analyst for our feature team, where I was the liaison between the client and vendors for all technical and business processes.
- Solely delivered 4 major functional features that entailed managing the vendors, ensuring deadlines were met, and requirements were signed-off on.
- Managed and ensured accuracy on the **Confluence** and **JIRA** platforms by assuring all on-going changes were appropriately reflected.

IBM

Software Engineer Intern (16-months)

Markham, Ontario

May 2018 - August 2019

- Supported client-side development for TD, National Bank, HSBC, and Desjardins by working on 8 distinct projects, primarily using **Java** and **Python**.
- Designed and developed a fully functioning **REST API** using **Python** that stored the required order data based on the transaction ID in an **IBM Cloudant Database** by connecting to the Thompson Reuter servers via **HTTP**.
- Increased TD's orders-processed per second by ~100% (600,000), by implementing a redesign to their stock order engine using **Java**.
- Streamlined an internal unit-testing process by 20% (4hr) by creating a **Python** script that automates test-case construction using an **IBM Db2 Database**.

McMaster University - Faculty of Computing & Software

Research Assistant

Hamilton, Ontario

January 2019 - April 2019

- Implemented **Elm** and **Haskell** to support Dr. Christopher Anand's current research on Computational Algebraic Thinking.

Extra-Curricular Involvement

DeltaHacks - Faculty of Engineering, McMaster University

Vice President, Finance and Sponsorship

Hamilton, Ontario

May 2019 - Present

- Directed a cross-functional executive team to obtain funding from 22 corporate sponsors of \$105,000, yielding a year-over-year 31% increase in funds, 25% surge in company interest, 12% improvement in sponsor retention and a 10% negotiated increase in initially proposed funding.

Mathematical Investment Research Council

Quantitative Research Analyst

Hamilton, Ontario

September 2019 - April 2020

- Designed quantitative trading strategies to predict the stock market by using **Python** to build mathematical models of **neural networks (NNs)** and **support vector machines (SVMs)** via **ensemble learning**.

Technical Experience

Experience working with Python, Java, C#, JavaScript, SQL, Kusto (KQL), HTML/CSS, Haskell and Elm

Tools and Technologies: MongoDB, Git, Azure, AWS, IBM Cloud, Flask, ReactJS and .Net

Wallet - Financial Budgeting Application

maanavgarg.com/wallet/wallet-app

- A **REST API** for a personal finance dashboard created using Plaid's API that displays your aggregated accounts and transactions.

Questrade API Wrapper

github.com/Maanav-G/questrade-api-wrapper

- A custom **Python** wrapper for the Questrade API that retrieves and analyzes key information from my Questrade Trading account.

NBA Rookie Statistics Predictor

github.com/Maanav-G/NBA-rookie-statistics-analysis

- A machine learning model designed in **Python** that predicts the statistics of the NBA's 2019-2020 season rookies.

Additional Information

Additional Campus Involvement: EDGE: Technology Lead, Microsoft: Student Partner and Waterloo: Software Developer

Competitions and Conferences: Placed 1st in Deloitte's Consulting Case Competition, 2nd in Microsoft's Azure Competition, 1st in IBM's FutureBlue Competition, 3rd in Deloitte's Blockchain Case Competition, 2nd in Microsoft's Machine Learning Competition and 5th at HackPrinceton for best overall 'Hack'