Maanav Garg

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Education

McMaster University   Hamilton, Ontario
B.A.Sc. Honours Computer Science - GPA: 3.94/4.0   Expected April 2022

Work Experience

Microsoft   Seattle, Washington
Software Engineer Intern   May 2020 - Present
- Designing and implementing an interactive dashboard with **C#**, **ASP.NET** and **JavaScript** for Visual Studio's extension ecosystem.
- Leveraging **Kusto (KQL)** for engineering data, by dynamically translating extension telemetry into digestible information for the dashboard.

Deloitte Consulting   Toronto, Ontario
Consulting Analyst   January 2020 - April 2020
- Consulted client-side for a large aviation conglomerate on delivering a 'Loyalty' program from end-to-end.
- 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.
- Facilitated PI planning by adhering to the project roadmap and capturing business requirements to appropriately allocate feature delivery sprint-by-sprint.
- Managed and ensured accuracy on the **Confluence** and **JIRA** platforms by assuring all on-going changes were appropriately reflected.

IBM   Markham, Ontario
Software Engineer Intern (16-months)   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** that returned the required order data based on the transaction ID by connecting to the Thompson Reuter server and cross-referencing with internal data and requirements.
- Increased TD's orders-processed per second by ~100% (600,000), by implementing **Java** to redesign their stock order engine, while also overseeing the QA effort and handling required post-delivery maintenance.
- Streamlined an internal unit-testing process by 20% (4hrs) by creating a **Python** script that automates test case construction, using the internal database.

McMaster University - Faculty of Computing & Software   Hamilton, Ontario
Research Assistant   January 2019 - April 2019
- Implemented **Elm** and **Haskell** to support Dr. Christopher Anand's current research on computational algebraic thinking.
- Developed 14 quantitative models of gradient waveforms based on Dr. Anand's recent research on 'MRI' by analyzing gathered data.

Extra-Curricular Involvement

DeltaHacks - Faculty of Engineering, McMaster University   Hamilton, Ontario
Vice President, Finance and Sponsorship   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, a 25% surge in company interest, 12% improvement in sponsor retention and a 10% negotiated increase in initially proposed funding.
- Formalized a comprehensive design of the sponsorship packaging strategy which amplified our offered opportunities by illustrating quantified statistics of our event, highlighting popular and attractive perks, and offering the freedom of customization to suit the companies needs.

Mathematical Investment Research Council   Hamilton, Ontario
Research Analyst   September 2019 - April 2020
- Implemented and presented quantitive trading strategies by designing mock-ups of mathematical models using **Python** and machine learning techniques while focusing on time series strategies, future/ETF arbitrage, and cross-sectional strategies.

Technical Experience

Experience working with Python, Java, C#, JavaScript, HTML, CSS, Haskell and Elm
Tools and Technologies: **Angular, React, .Net, KQL, Django, Flask, Node.js, jQuery, Git, AWS, Azure** and **Google Cloud**

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 that predicts the statistics of the NBA's 2019-2020 season rookies

Additional Information

Additional Campus Involvement: Microsoft: Student Partner, Consulting Association: Consultant, IBM: Campus Ambassador, Waterloop: Software Developer
Competitions and Conferences: Placed 1st in Deloitte's Consulting Case Competition, 2nd in the Discover Azure Competition, 1st in IBM's FutureBlue Competition, 4th in Deloitte's Blockchain Case Competition, 2nd in Microsoft's Machine Learning Competition and Top 7 at HackPrinceton for best overall 'Hack'