

# Maanav Garg

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## Education

McMaster University

B.A.Sc. Honours Computer Science, minor in Management - GPA: 3.9/4.0

Hamilton, Ontario, Canada

September 2017 - April 2022

## Work Experience

IBM

Markham, Ontario, Canada

Software Developer & Technical Analyst Intern

May 2018 - August 2019

- Consulted and developed client-side for TD, National Bank, HSBC and DeJardins, by working on 21 distinct projects, using Java and Python
- Performed an extensive 26-hour analysis for the redesign of TD's stock processing server, by examining the servers current status, and cross-referencing it with 9 viable options, leading to an increase in orders-processed per second by 100% (600,000)
- Designed a 2-part solution using Java for National Bank, which by restructuring their current system and implementing a backup cloud, allowed automatic dispatch of data to any location, assuring that neither security, availability nor capacity are issues
- Improved and streamlined an internal unit-testing process by 19% (6hr), by designing a Python script that automates the construction of user test cases

Faculty of Computing & Software, McMaster University

Hamilton, Ontario, Canada

Research Assistant

January 2019 - Present

- Initiated a new research project using Elm and Haskell, alongside Dr. Anand, which focuses on 'algebraic thinking' using computation
- Developed 14 quantitative models of gradient waveforms, based on Dr. Anand's recent research on 'MRI', by analyzing gathered data, and assembling appropriate graphs and models
- Led a 6-member team to manage and organize the OutReach initiative at 5 local secondary schools, that's designed to spread awareness in programming, resulting in a 8% increase in 'Computer Science' applications at McMaster from targeted regions
- Developed 6 games, using Elm and Haskell, that implemented game design principles and taught over 300 students the basics of programming

Mixem Inc.

Toronto, Ontario, Canada

Front-End Developer Intern

January 2018 - April 2018

- Designed and developed front end components using HTML, CSS and Javascript with React Native and the Semantic UI and Shoutem UI libraries
- Connected the Node.js back end with the Express framework to create an API for a React frontend

## Extra-Curricular Involvement

DeltaHacks - Faculty of Engineering, McMaster University

Hamilton, Ontario, Canada

Vice President of Sponsorship

May 2019 - Present

- Directed a cross-functional 8-executive team to obtain funding from 20 sponsorships sources of \$105,000, yielding a 31% increase in funds, a 25% surge in company interest and a 12% improvement in sponsor retention, from last year
- Formalized a comprehensive design of the sponsorship packaging strategy, that 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
- Increased number of applicants by 15% (~2,100) within 5-months, by launching the 'Campus Ambassador' program
- Negotiated an average of a 12% increase in funding with sponsors, using metrics, in comparison with the year former

IBM

Markham, Ontario, Canada

Future Blue Lead

January 2019 - Present

- Trained a 16-member team, that organized 44 'Career and Development' events throughout 8-months, including workshops, case competitions and professional keynotes catered towards IBM interns within consulting, finance, marketing, sales and technology
- Earned a 50% raise in allocated budget from human resources, by demonstrating an increase of intern turnout by 47% to 63% at each event
- Managed the Events, Relations, Marketing, and Logistics portfolios, by delegating tasks on a weekly basis, monitoring day-to-day progress, and measuring team success by comparing current state to former event and team metrics

## Technical Experience

Experience working with Python, JavaScript, HTML, CSS, Java, C, Haskell and Elm

Tools and Technologies: React, Django, Angular, Node.js, jQuery, Git, Azure and Google Cloud

NBA Rookie Statistics Predictor

<https://github.com/Maanav-G/NBA-rookie-statistics-analysis>

A machine learning model that predicts the statistics of the NBA's 2019-2020 season rookies

Recommendation Engine

<https://github.com/Maanav-G/Recommendation-Engine>

A model that recommends the user a similar set of movies based on the inputted movie title

Chess

<https://github.com/Maanav-G/Chess>

A functional chess engine, that allows the user to play chess against an AI bot