Maanav Garg

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Education

McMaster University   Hamilton, Ontario, Canada
Honours Bachelor of **Computer Science**, minor in **Management** - GPA: 3.95/4.0   September 2017 - April 2022

Work Experience

IBM   Markham, Ontario, Canada
Software Developer & Technical Analyst Intern   May 2018 - Present

- Conducted client-side consulting and software development, for TD, National Bank, HSBC, & Dejardins.
- Created and developed technical mock-ups combined with complementary presentations to recommend an appropriate solution for each and any client problems.
- Developed and maintained multiple servers and applications, according to the client specifications, using Python.
- Used Python to create and implement engines that filtered, edited and redirected incoming stock orders based on specified rules, which streamlined the process by 34%.
- Developed, recommended and implemented technological adjustments to client's pre-existing platforms and softwares.
- Understood the values of and built upon time management, organization, and collaboration skills, while combining them to achieve targets, goals, deadlines and delivery dates.

Faculty of Computing & Software   Hamilton, Ontario, Canada
Research Assistant   January 2019 - Present

- Assisted Dr. Christopher Anand with software research and development, primarily using JavaScript, Elm and Haskell
- Developed and altered pre-existing softwares using JavaScript for research on algebraic thinking.
- Provided constant support in designing various applications in Elm and Haskell for the OutReach initiative.
- In-charge of our back-end and front-end website development and management.
- Led a team of fellow assistants, while writing specification documents and reports to provide an overview of our progress.

Extra-Curricular

DeltaHacks - Faculty of Engineering, McMaster University   Hamilton, Ontario, Canada
Vice-President Sponsorship   May 2019 - Present

- Supervised and coached a team of 10 executive members, and consistently met and exceeded monthly performance goals.
- Created and overlooked implementation of our sponsorship packaging strategy.
- Responsible for securing funds from new sponsors, and maintaining professional communication with the organizations.
- Built financial support to off-set operational costs, and projected to increase our budget by over 38% from the year before.
- Ensured that sponsor recognition is provided and relationships are maintained.

IBM   Markham, Ontario, Canada
Future Blue Lead   January 2019 - Present

- Director and site-lead of Future Blue - an organization run by Interns, and powered HR for the growth of all IBM interns.
- Supervised a team of 16 executives while overseeing the Career & Development, Logistics and Marketing portfolios.
- Organized on-site career & development events for IBM interns, including workshops, case competitions and hackathons.
- Liaised with the HR to effectively arrange each event, including creating an event agenda, bookings and marketing.
- Collaborated with the other site executives to organize our annual 'FutureBlue' conference, inviting over 400 IBM interns.
- Role entailed a great deal of delegation, collaboration, extensive planning, time management and organizational skills.

Waterloop - Faculty of Engineering, University of Waterloo   Waterloo, Ontario, Canada
Software Developer (Web Development)   May 2018 - January 2019

- In-charge of the web development and management of https://teamwaterloop.ca using HTML, CSS, Javascript and React.
- Collaborated with our graphics executive team to effectively create and design components of the website.

Technical Experience

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

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

Recommendation Engine   June 2019 - Present

A standard recommendation engine for movies   https://github.com/Maanav-G/Recommendation-Engine

- A data science project that recommends the user a set of movies, based on a user-inputted movie, with a similarity score.
- Created using Python, and served on a web app using flask.

Blog   October 2018 - December 2018

A fully functioning blog web application created using Django 1.9   https://github.com/Maanav-G/Blog

- Used Python with Django 1.9 to develop a blog on a simple web application.
- Full-functional with admin dashboard support.

Web Development Portfolio   September 2016 - Present

Notable websites that I've designed and developed

- https://www.maanavgarg.com - my personal online portfolio
- https://www.teamwaterloop.ca - University of Waterloo's Hyperloop team - Waterloop
- https://www.deltahacks.com - McMaster University's largest Hackathon - DeltaHacks

BlockChain - Delloite Case Finalist   May 2018

A blockchain served through an Angular web application   https://github.com/Maanav-G/blockchain-

- Used Python to develop a standard Blockchain, and its functions, while using Postman to test functionalities.
- Developed the blockchain functions using external python libraries: requests, hashlib and flask.

Azure - Microsoft Machine Learning Competition Finalist   May 2018

Created and tuned a machine learning model using Azure to predict if a given flight is likely to arrive on time or not

- Employed algorithms using Python to facilitate predictive analytics of large datasets.
- Implemented a cloud-based predictive-analytic service (Azure Machine Learning Studio), to build, train and tune a machine-learning model utilizing on-time arrival data for a major U.S. airlines.
- Created a model that predicted whether a given flight is likely to arrive on time, based upon its booking time, that made an accurate prediction 78.8% of the time (AUC = 0.788).

Additional Involvement

Deloitte National Leadership Conference (DNLC)   Summer 2019

Delegate   Toronto, Ontario, Canada

- Placed 1st for the Deloitte Consulting Case Competition.

HackPrinceton   Fall 2018

Competitor   Princeton, New Jersey, United States

- Placed Top 5 for best overall 'Hack'.

Microsoft - Discover Azure Competition   Summer 2018

Competitor   Waterloo, Ontario, Canada

- Placed 2nd for the Discover Azure Competition.

CUTC Ignite Conference   Summer 2018

Competitor/Attendee   Waterloo, Ontario, Canada

- Placed Top 3 for the Deloitte case competition.
- Placed 2nd for the Microsoft Machine Learning Competition.

NSpire - Mind Over Matter Case Competition   Winter 2018

Competitor   London, Ontario, Canada

- Placed 3rd for the Mind Over Matter Case Competition.