WORK EXPERIENCE FILLING IN:

TITLE:

DATA ANALYTICS ASSISTANT INSTRUCTOR

ROLE DESCRIPTION:

Facilitating instructor to deliver course material on topics about data modeling, front end development and visualization,

python application development and tableau. Duties include debugging coding issues faced by students in their personal projects.

TITLE:

Co-Founder and Primary Programmer

ROLE DESCRIPTION:

As the primary programmer, I developed a mobile website (https://entray.ca) to facilitate dine-in services at restaurants. The website was created using the Django framework, hosted on AWS EC2 instance and implemented a stripe as the payment gateway.

The project overall processed over 100 transactions, had acquired three paying clients and secured the team a place in the final round of a summer start up competition.

TITLE:

Web Developer and Tech desk assistant

ROLE DESCRIPTION:

Maintaining the EJ Pratt, including, working on the front end, adding features such as autocomplete, information retrieval and general assistance with any technical questions that library patrons would have

TITLE:

Data Modeling Teaching Assistant

ROLE DESCRIPTION:

Conducting lab sessions for the students, and facilitating learning on topics such as SQL, JDBC programming, relational database and, structured database application

TITLE:

Financial Director

ROLE DESCRIPTION:

Maintain the financial records for the student body association for the Academic year (2019-2020) including budgeting. I am responsible for ensuring sufficient funds for social, academic and professional development programs hosted by the club.

TITLE:

Communication Liaison and Team Member

ROLE DESCRIPTION:

A consulting project in analyzing the role of technology (specifically around artificial intelligence and machine learning) in disrupting the traditional consulting practices in the big four. A comprehensive report was produced to study the current market expectations and how auditing consulting firms would need to pivot to meet the demands.

TITLE:

Intern - Nanotechnology Lab

ROLE DESCRIPTION:

Design and construct soft robots that would actuate under an external stimulus so be able to provide sufficient force (as a result of volume expansion) to eventually be used in biomedical applications.

Paytm has revolutionized mobile payment in India, particularly in its scalability and effectiveness in reaching the masses. This last summer, on my trip to India, I witnessed Paytm being used in autorickshaws and bodegas all the way to eight story malls. I am excited at the opportunity to work at such a pioneering company and look forward to hearing from you.

For decades MDA has been in the business of converting vision into action. Starting from the iconic Canadarm robot, MDA has never fallen short of leading the country and the world into new territory in space and here on earth. Making a mark at MDA would translate to making a mark on humanity and this is exactly what I aspire to do. I hope to hear from you regarding how I can be part of this phenomenal organization.

TITLE:

Team member

ROLE DESCRIPTION:

Design and construction of a dual gantry 3D printer to produce parts using the material PEEK (polyether ether ketone). These parts would be used in the construction of aircraft attenuators and would eventually replace standard aluminum attenuators. PEEK’s high melting point and geometrical shape of the attenuators cannot be reproduced by commercial 3D printers and a construction of one was necessary.

Masters:

The official title of my graduate degree would be, Masters of Engineering from the Industrial Engineering Department with an emphasis on Data Analytics. Throughout my engineering program, I have focused on understanding the real-world implications of machine learning models, and how to analyze data to find solutions and predict future trends. This includes a variety of projects including, natural language processing, recommender systems, information retrieval, regression models and classification models. Apart from my data science courses, I took up computational fluid dynamics courses to understand the discretization of complex differential equations. I also took two courses on presentation and consulting to hone in my communication skills and present complex engineering concepts to the general population.

Bachelors:

My program was the Engineering Science Program with a concentration on Space Engineering a minor in Mathematics. The program aimed at covering the core classes (physics, chemistry, heat and mass transfer, fluids, dynamics and statics, electrical engineering and mechatronics systems). Additionally, I was exposed to upper-level math programs including linear algebra, higher-level calculus, ODEs and PDEs and statistics. The final project included the construction of a 3D printer that was able to print using two different filaments at the same time. The project was sponsored by Boeing to investigate into alternatives to traditionally used aluminum attenuators.