Aditya Sharma

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Education

McMaster University

Sept 2018 – Apr 2023

- Major: Software Engineering – Year 2
- Seeking Summer 2020 & Fall 2020 Internships
- **Dean's Honor List**

Experience

McMaster University   Full-Stack Web Developer (RA)

Oct 2019 – Present

- Developed additional web-applications to be used by **~300+** clients and deployed on **Linux Server**
- Optimized back-end data processing algorithm from **$O(N_2)$ to $O(N)$**
- Developed live web analytics applications (dashboards) using **Dash, Flask (Python) & SQLite**
- Deployed the dashboards on **Heroku**
- Developed **APIs** using **Flask** to manage user data & interactions

Loblaw Companies Limited   Data Analyst Intern
Software Developer Section

June 2019 – Aug 2019

- Performed **Software Developer Intern** tasks during the last 2 months of the internship
- Automated **99%** of assigned analytics tasks by developing **Python applications**
- Developed & deployed software solutions from scratch with potential annual savings of **$80,000+**
- Lead the technical development of a **Chatbot** via **Google's Dialogflow** API and deployed to stores for **POC**
- Developed a web application for tracking employee bandwidth & skills using **Vuejs** & **Firebase**
- **Lead** the internal front-end web development team

Loblaw Companies Limited   Data Analyst Intern
Data Science Section

Apr 2019 – June 2019

- Performed **Data Science Intern** tasks during the first 2 months of the internship
- **Won 2nd place** during internal Dragon's Den style presentations with **VPs & SVPs**
- Developed critical **NLP Algorithms**, improving text analysis & classification efficiency by over **500X**
- Leveraged **Git** to facilitate deployment of the NLP Algorithm across the IT Department
- Proficiently developed **machine learning** & statistical models with ~**70%** accuracy
- Performed data cleaning, data archiving, data processing & data visualization using Pandas, NumPy & MatplotLib

Projects

SafeWayz

- I was the group's **Product Manager** and **Lead Developer**. I lead the **entire project** from ideation to deployment. I implemented the core graphing and sorting algorithms with **Java** while leveraging **Python** to perform data cleaning and formatting.

Secure Room

- I developed an **Intrusion Detection System** by using **Python** & a **Raspberry Pi**. The system will detect an intrusion via sensors and will identify the individuals via **facial recognition**. If the individual is unidentified, an alert will be sent to the user's phone via email.

Skills

Languages: Python, Java, TypeScript, JavaScript   (Listed in order of proficiency)
Frameworks: Flask, React, Pandas, Matplotlib, Selenium, Sci-kit Learn
Technologies: Git, Firebase, Power BI, Tableau, Azure, GCP