





MUJTABA SIDDIQUI

Honours Geomatics | University of Waterloo

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EXPERIENCE

Data Engineer | Manulife

May – Aug 2020, Kitchener, ON

- Developed a **Mainframe** ingestion framework with **Spark** and **Nifi** leading to **\$200,000** yearly cost savings from third party alternatives
- Independently wrote new **data pipelines** to improve accuracy of key business metrics used by executives, marketing and advanced analytics teams in building machine learning models and strategy planning
- Led a team of co-ops in creating a web app to automate the returning co-op hiring process saving **5+ hours** a week for hiring committee
- Created a system to monitor **HIVE** process to mask sensitive PII
- Configured **CI/CD** pipelines using Pytest for **unit testing** and Jenkins to automate versioning and deployment of new packages

Data Analyst | York Region

Sep – Dec 2019, Newmarket, ON

- Created a program to automate georeferencing with **computer vision** and artificial intelligence using Python with **OpenCV**, saving **15 hours** from the permit approval process
- Developed various **PowerBI** dashboards with **SQL Server** integration and automated data entry to visualize data for enterprise wide consumption
- Exhibited strong communication skills by creating communications plan and marketing materials for the Region's Data and Analytics Masterplan
- Automated workflows using **Python**, such as writing a script to create the Region's online Analytics Gallery on the Voyager Search platform

PROJECTS

SpotUp

Python, Javascript, Plotly, Dash, Flask, React, Pandas, Scikit-Learn

Initially a capstone project showing the versatility of spatial analysis it has morphed into a continued side project. SpotUp is a **web app** aiming to bring **advanced analytics** and **spatial analysis** to any NBA fan with limitless customizability, and expand the use of spatial analysis in the NBA through **dashboards**

L.I.S.A. | UW Starter Hacks 2020

Python, OpenCV, Tensorflow, Raspberry Pi

A proof of concept designed to help caregivers look after their patients using **computer vision** to monitor their movements and notify of potential hazards when the caregiver is not present

Imperium Solar | UW Energy Hacks 2019 Winner

HTML, CSS, Javascript, Python, ArcGIS

A conceptual start-up created to lower the cost of solar energy by connecting businesses with investors and providing a ROI report using deep learning to perform **time series forecasting** on satellite and electricity usage data, aiming to show financial incentive to environmentally sustainable practices

SKILLS

LANGUAGES

Python
Scala
SQL
R
Java
C
Javascript

TECHNOLOGY

Hadoop
Spark
HIVE
Nifi
Docker
MySQL
PostgreSQL
SQL Server
PowerBI
Tableau

TOOLKIT

Pandas
NumPy
Flask
Tensorflow
PyTorch
Scikit-Learn

EDUCATION

University of Waterloo

Bachelor of Environmental Studies,
Honours Geomatics

Graduation Expected 2022

Dean's Honours List

Relevant Courses: Data Types and Structures, Multivariate Statistics, Databases, Linear Algebra, Calculus

External Courses: NLP with PyTorch (Pluralsight), Python and Spark for Big Data (Udemy)