**ATHER QURESHI**

**Full Stack Data Scientist**

[**GitHub**](https://github.com/atherqureshi) **|** [**LinkedIn**](https://www.linkedin.com/in/atherqureshi/) **|** [**Website**](https://atherqureshi.github.io/)

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**Summary**

I consider myself somewhere in the intersection between the field of software engineer, data analyst, modeller, and data engineer – to which I summarize as “Full Stack Data Scientist”. I am no stranger to system design and consider myself someone who works on the full end-to-end. I am a big fan of open source tools and love collaborating with others. I like to build awesome things and to never stop learning.

**Skills**

**Programming** Python Java C JavaScript Spark Bash

**Full Stack** Linux Docker Kubernetes Flask HTML/CSS HDFS RDBMS NoSQL Redis

**Data Science** SQL IPython Sklearn Keras Excel

**Experience**

**Machine Learning Engineer**

Bell | June 2019 – Present | Toronto, ON

* Lead in implementation for call routing machine learning application that affects agent-customer routing in real-time.
* Complete ownership of on-demand (sub 200ms SLA) model applications using both real-time and batch data
* Lead in the architecture and system design of our modeling applications
* Designed full CI/CD pipelines to run tests, build docker images, and deploy to Kubernetes

**Data Scientist**

Bell | Sept 2018 – June 2019 | Toronto, ON

* Used variety of machine learning tools such as Neural Networks and Gradient Boosted Decision Trees for a variety of classification and regression problems
* Led implementation and designed the complete end-to-end solution for an on-demand call prediction model which led to 20% decrease in average call time

**Data Engineer**

Bell | Sept 2017 – Oct 2018 | Toronto, ON

* Primary data engineering team that manages over 6 Petabytes of data with over 150+ attributes per customer
* Lead data engineer for campaign tool (SMS, Email, Inbound/outbound calls) – 80M Offers Per Year
* Created Tableau dashboards and SAS macros to assist production in moderating over 8000 ETL Jobs

**Projects**

**Machine Learning and Visualizations**

Western University | May 2017 – August 2017 | London, ON

* Independently created [**Decision Visualizer**](https://github.com/atherqureshi/4490Z_DecisionTreeVisualizer), an interactive web app to generate and visualization decision trees
* Using Python libraries scikit-learn, numpy and pandas, created a generic script that would parse csv data and create a decision tree classifier, and used d3.js to create the interactive visualization on the browser.

**HTML5 JavaScript Game**

Western University | Jan 2017 – April 2017 | London, ON

* Lead for [**Attack of the Bubbles**](https://github.com/xchen389/cs4483game) for game design course, utilizing primarily the phaser JavaScript Library
* Developed collision and physics engine, user interface, graphics, animations, localStorage saving system, and wrote game music

**Education**

**Western University | BSc Honours Specialization in Computer Science, Minor in Psychology**

September 2012 – August 2017 | London, ON

* 3.67 cGPA | 3.81 GPA in Major (Computer Science)
* Western Scholarship of Distinction and Dean’s List

**Certifications**

* [**Udacity Full Stack Web Developer Nano Degree**](https://printer.udacity.com/v2/certificate/2USR2AG5/download)|Frontend, Backend, CRUD, deployment, Linux
* [**Machine Learning by Stanford University on Coursera**](https://www.coursera.org/account/accomplishments/certificate/QYDV8SVTZUE2)|Bottom-up ML, statistics, theory, implementation
* [**Teradata: Introduction to Teradata / Advanced SQL Features**](https://courses.teradata.com/learning/cust_ed/_certificate/?FBSFDS5444%3A0Buifs%21Rvsftij0Nbsl%21Kbvtt0) |Performance Tuning, Recursion, OLAP
* [**SAS Programming 2**](https://www.youracclaim.com/badges/f47dd1ec-2ed9-4b77-bf74-61026d212d1c/public_url) and [**SAS Advanced Macro Training**](https://www.youracclaim.com/badges/972224e4-fc1c-43bd-adc1-ccdfa70f0144/public_url) | SAS for analytics/automation

**Extracurricular**

* **President** of Western’s Pakistani Students Association | $2000 Annual Budget | 150 Members