**ATHER QURESHI**

**Full Stack Data Scientist**

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

[atherqureshi07@gmail.com](mailto:atherqureshi07@gmail.com) | (+1) 647-383-7332 | Toronto, ON

**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. Currently, I am very interested in working with large distributed systems and building applications that scale.

**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 | Oct 2018 – Present | Toronto, ON

* Lead in implementation and architecture (i.e. created microservices, web stack with Python) for real-time call routing machine learning applications that affects agent-customer routing in real-time and provides predictions to agents.
* Created RESTful as well as event driven (Kafka) end points for said machine learning applications for data/request movement
* Designed and utilized throughput and latency testing for microservices with Kafka and third-party request generators.
* Designed full CI/CD pipelines to run virtualized integration tests with Redis/Kafka, and deploy to Kubernetes
* Used variety of machine learning tools such as Neural Networks and Gradient Boosted Decision Trees for a variety of classification and regression problems

**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
* Lead in data engineering for Bell’s Connected Car Initiative with AT&T
* Created Tableau dashboards and SAS macros to assist production in moderating over 8000 ETL Jobs
* Created auto-table deletion system based on RDBMs control tables with dashboards/email notifications/reports.

**Projects**

**Machine Learning and Visualizations**

* 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.

**CRUD Website on Amazon Lightsail**

* Created a [**catalog application**](https://github.com/atherqureshi/Project_CatalogApp) hosted on an amazon elastic container that lists items and allows you to create/read/update/delete items via the front-end.
* Configured DNS A-name record to route traffic via public DNS to EC2 ip and port.
* NGINX Reverse Proxy, with python backend (uwsgi/flask) and a small sqlite db.
* Google OAuth2 (token-based authentication), bootstrap front end, SQL alchemy for DB interaction.

**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
* Speaker at **Toronto Machine Learning Series Micro Summit – Insurance and Teclo 2018**