

# ATHER QURESHI

## Full Stack Data Scientist

[GitHub](#) | [LinkedIn](#) | [Website](#)

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](#), 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](#) 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](#) | Frontend, Backend, CRUD, deployment, Linux
- [Machine Learning by Stanford University on Coursera](#) | Bottom-up ML, statistics, theory, implementation
- [Teradata: Introduction to Teradata / Advanced SQL Features](#) | Performance Tuning, Recursion, OLAP
- [SAS Programming 2](#) and [SAS Advanced Macro Training](#) | 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**