**ATHER QURESHI**

**SOFTWARE ENGINEER | BUSINESS INTELLIGENCE**

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**Skills**

* **Languages**: Python, Java, SQL, SAS, Shell, JavaScript, HTML, CSS, C++, C, MIPs
* **Extensive** **experience**: DBMS, SQL Tuning, Jira, Algorithms, Tableau, Visualizations, Git, Excel

**Experience**

**Bell Canada | Data Engineer**

September 2017 – Present | 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) – 80M Offers Per Year
  + Refactored back-end for these processes from the ground up
  + Halved resource usage and runtime of these jobs and contributed heavily to documentation.
  + Integrated Virgin Home Internet and Churn data into these offer system
* Integrated and automated Small Business data (with Dun and Bradstreet) into our data warehouse, and created a list of prospects (80K) for outbound marketing
* Created Tableau dashboards and SAS macros to assist production to supervise over 8000 Jobs
* Part of the Bell’s BI Graduate Leadership Program | [**TalentEgg Best Grad Program of 2016**](https://360.talentegg.ca/2016/05/presenting-the-winners-of-the-2016-talentegg-campus-recruitment-excellence-awards/)

[**Grahn Lab**](http://www.jessicagrahn.com/research.html) **| Computer Programmer**

September 2016 – April 2017 | The Brain and Mind Institute, London, ON

* Assisted PhDs in all technical aspects of their thesis labs revolving around music and neuroscience
* Created experiments in Java and Matlab, that quantified and analyzed audio and video

**Projects**

**Insight Lab | Machine Learning and Visualizations**

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

* Independently created [**Decision Visualizer**](https://github.com/atherqureshi/4490Z_DecisionTreeVisualizer/blob/master/CS4490Z_AtherQureshi_Thesis.pdf), an interactive web app to generate and visualization decision trees
* Using Python libraries scikit-learn, numpy, pandas, created a generic script that would parse csv data and create a classification decision tree
* This tree in Python was then parsed into a JSON file, that I referenced within the DOM of a framework
* Visualized this tree using d3.js in the browser, and allowed user to input new data on the webpage

**Game Design | HTML5 JavaScript Game**

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

* Lead Programmer and Designer for [**Attack of the Bubbles**](https://github.com/xchen389/cs4483game), utilizing primarily the phaser JavaScript Library
* Created UI, AI, Game Logic, Design, Music, and Saving System.
* Handled collision and physics engine, particle effects, game flow, JSON saving system, pause screen, and wrote game music

**Education**

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

September 2012 – August 2017 | London, ON

* 3.81 GPA in Major (Computer Science) | 3.67 cGPA
* Received Western Scholarship of Distinction and Dean’s List
* Studied 2.5 years of Biochemistry in Medical Sciences prior to switching to Computer Science

**Certifcations**

* [**EDX DAT205x: Introduction to Data Analysis using Excel**](https://courses.edx.org/certificates/46ec331154d943dba747fb75e098f98a) |Data Mining, Pivot tables, Macros
* [**EDX DAT203.1x: Data Science Essentials**](https://courses.edx.org/certificates/81d62d49b1924ac68fd8bdd8e8239076) | Microsoft Azure, Python, Seaborn, Matplotlib
* [**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** |SAS Procedures, Data Steps, Transformations, Raw Data file reading
* **SAS Advanced Macro Training** | Automation, Conditional Logic, Program Flow

**Extracirrcular**

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