

# ATHER QURESHI

## SOFTWARE ENGINEER | BUSINESS INTELLIGENCE

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

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### Skills

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- **Languages:** Python, Java, SQL, SAS, Ruby, Shell, JavaScript, HTML, CSS
- **Extensive experience:** Data Warehousing, SQL Tuning, OO Programming, Tableau, Git

### Experience

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#### 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 calls) – 80M Offers Per Year
  - Refactored back-end for these processes from the ground up
  - Sped up runtime of ETL jobs by 200%, decreased server load by 150%, and halved development time for future developers to bring in new data (\$3M+ benefit)
  - Built contingencies if data sources for processes failed, and alert system for clients to stop campaigns
- Integrated Small Business data (with Dun and Bradstreet) into our data warehouse to create a list of prospects (80K) for outbound marketing and bring in more firmographic data per business account.
- Created Tableau dashboards and SAS macros to assist production in moderating over 8000 Jobs

#### [Grahn Lab](#) | Computer Programmer

September 2016 – April 2017 | London, ON

- Assisted Lab researchers in technical aspects of their experiments revolving around music and neuroscience
- Created pilot experiments in Java and Matlab, that quantified and analyzed audio and video to detect rhythm and create measurable data.

### Projects

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#### [Insight Lab](#) | Undergrad Thesis: Machine Learning and Visualizations

May 2017 – August 2017 | London, ON

- 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 classification decision tree
- Made an interactive viewer for the project using d3.js that also allowed users to predict new data
- Project is now being used as a baseline for future students to iteratively improve

#### Western University | HTML5 JavaScript Game

Jan 2017 – April 2017 | London, ON

- Lead for [Attack of the Bubbles](#), utilizing primarily the phaser JavaScript Library
- Developed collision and physics engine, user interface, graphics, animations, localStorage saving system, and wrote game music

### Education

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#### 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 prior to switching to Computer Science

### Certifications

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- [EDX DAT205x: Introduction to Data Analysis using Excel](#) | Data Mining, Pivot tables, Macros
- [EDX DAT203.1x: Data Science Essentials](#) | Microsoft Azure, Python, Seaborn, Matplotlib
- [Teradata: Introduction to Teradata / Advanced SQL Features](#) | 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

### Extracurricular

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- **President** of Western's Pakistani Students Association | \$2000 Annual Budget | 150 Members