Jumana Bahrainwala

think/ learn/ analyze

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BBA(Finance)/ BMath(CS)
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EXPERIENCE

UNATA (INSTACART)
Feb 2017 - Present

Backend Software Engineer, Toronto, ON
Building the backend services and APIs to help move towards a service oriented architecture. Integrated with different fulfillment and payment providers.
Tools used: ***Python, GCP - Datastore, BigQuery, Bigtable, ElasticSearch, Postgress***

UNATA (INSTACART)
Nov 2015 — Feb 2017

Data Scientist, Toronto, ON
Work on the **search engine for an Commerce Platform.** Responsible for precision and recall of search, along with any features of the search engine. Designed and deployed the **data ingestion pipeline** for the Recommendation Engine.
Tools used: ***Python, ElasticSearch, Psql, Redis, Cassandra, scikit-learn, numpy***

PIINPOINT
May-July2015

Data Engineer, Waterloo, ON
Used demographic data based on **Geographic Information Systems (GIS)** to create **clusters using the k-means** algorithm to identify different customer segments on a Map
Tools used: ***scikit-learn, Python, Bash, Mongodb***

SCOTIABANK
Sept - Dec 2014

Data Scientist, Toronto, ON
In charge of **ETL process to convert flat files to Database**. Developed a web application on **Tableau to visualize metadata**, identify reverse & forward dependencies, and track changes made to data pipelines.
Tools Used: ***Bash, Python, MySQL, Tableau, Django***.

SPEAKING

Deconstruct Conference
Seattle, May 2018

How to Scale Database Migrations
Selected as a first-time speaker among 250 applicants, spoke on Scaling DB Migrations.

Unata
Toronto, October 2018

Introduction to Blockchain
Gave an internal talk on 'How Blockchain works and Crypto-economics'.

Explore Tech Meetup
Toronto, Nov 2016

How to Build a Large Scale Search Engine
Spoke at a local meetup about building a large scale search engine for an e-com site.

PROJECTS

911 Priority Queue

1st Place, IBM Watson Connected Labs Hackathon
Build a web app that analyzes calls to 911 and prioritizes them to decide on their response times. Used the Watson Api and a similarity algorithm to decide on what response times should be.

Data Mining

Ad-words Bidding
Given a dataset of keywords, bid prices, search engines; a partner and I used **supervised learning** to **develop logistic models to predict** the minimum price companies should bid for Ad-words.

ABILITIES

Languages	Python, C++, C, Bash, R, MATLAB
DataBases	Datastore, BigQuery, BigTable, Postgresql, MySql, ElasticSearch, Redis, Cassandra
Awards	1st Place IBM Watson Hackathon, 2nd Place New Venture, Semi Finalist ICE Business Competition

EDUCATION

BMath(CS Minor) from University of Waterloo, 2015. Graduated with Distinction
BBA (Finance Major) from Wilfrid Laurier University, 2015.

ACTIVITIES

I **tutor students** in Computer Science through Ladies Learning Code. I will continue to be involved in initiatives that help mobilize Women in Tech. I enjoy rock climbing and travelling. I read the Economist, Wired and Fantasy novels.