

Ali Saeed



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Work Experience:

BMO Financial Group

Big Data Analyst | Advanced Analytics | Jan 2018 – Present

Technologies: *Hadoop, Hive, Spark, SAS, SQL, D3.js, Spotfire, Python*

- Assisting in the migration from Hadoop MapReduce towards Apache Spark
- Analyzing clickstream data to make customer experience easier and smoother.
- Working with a model using Markov Chain Modeling and Regression tree to determine most valuable customer and lifetime value using projected wealth rather than current wealth
- Analyzing the patterns of events to figure out e-transfer fraud of over 6,000 customers
- Introduced D3.js graph visualization and building custom reusable graphs for analysis

BMO Financial Group

Junior Data Scientist | Tech & Operations | May 2017 – Dec 2017

Technologies: *Tableau, Elastic Stack, Python*

- Improved accuracy and efficiency of analyzing incident tickets by 85% through natural language processing and N-gram technique.
- Streamlined the process of studying trends and detecting anomalies by creating a semi automated dashboard based on Naïve Bayes using Elasticsearch and Kibana
- Reduced resolution time to 7 seconds for helpdesk by creating a machine learning algorithm to cluster text using K-means and Affinity Propagation
- Developed an interactive dashboard for reporting using Tableau

National ProStaff

Lead Consultant | E-Commerce & Data Warehousing | Aug 2016 – Dec 2016

Technologies: *Python, NoSQL, HTML, CSS, Mozenda*

- Designed a Relational Database Template to augment data retrieval & management
- Performed QA testing using agile methodology and prepared JIRA reports
- Led the implementation process of products & clients; ensuring successful onboarding

M.B.E Avalon

Marketing Analyst | Lead Generation | Aug 2016 – Dec 2016

Technologies: *R, Microsoft Office, Salesforce*

- Developed regression model to analyze potential risks of introducing new product
- Maintained client database locally on Excel and in the cloud using Salesforce

Projects:

Hand Writing Recognition – Urdu Language

- Collaborated in development of a handwriting recognition algorithm for Urdu language

Web Scraper

- Designed a script to scrape product data from thousands of e-commerce websites

Excel Image Downloader

- Created an interactive software that downloads images in bulk from client websites, renames and inputs them into Excel tables along with the product information

Game of Tetris

- Developed the game Tetris using Object Oriented Programming techniques in C++

Highlights of Skills:

Languages:

Python, R, SQL, C++, C, Javascript, HQL, HTML, CSS

Technologies:

Tableau, D3.js, SAS, Hadoop, Spotfire, Elastic Stack, AQT

Frameworks:

IBM Netezza, IDP, SAP Sybase, NoSQL, Amazon Redshift

Education:

University of Waterloo:

Bachelors of Computer Science

Major: Data Science

Achievements:

- **Outstanding** evaluations for all previous co-ops
- UW President's award and UW Intl Scholarship
- 92 score in the Euclidean Mathematical Contest

Volunteer Work:

- Designed promotional flyers and informational materials for **St. John Ambulance Marathon**
- Developed fundraising strategies, prepared and delivered presentations for corporate donors at **HOPES NGO**
- Kept track of inventory and provided free food and grocery items to students in need at **FEDS Food Bank**

Interests/Hobbies:

Camping, Swimming, Hiking, Living/travelling around the world, Visit MARS