

ROBBIE MEYER

WORK EXPERIENCE

Data Scientist at Kik

Jan 2019 - Apr 2019

- Improved training data and added new features to improve precision and recall of anti-spam machine learning models using SQL, Spark, XGBoost and Pandas
- Redesigned the testing process for improving the anti-spam models
- Analyzed data to monitor the impact of spam and the anti-spam system on users
- Communicated results of data analysis using PyPlot and Redash

Developer at Viryl Technologies

May 2018 - Aug 2018

- Developed metrics, fault data monitoring and more features using PHP and JavaScript for ADAPT, a web portal that provides tools for managing vinyl presses
- Created SQL queries to efficiently aggregate raw data into useful metrics
- Introduced new processes and tools into the workplace to improve development efficiency and code quality

Developer at Mitremedia (ETFdb.com)

Sep 2017 - Dec 2017

- Built and updated features such as an ETF screener using Ruby on Rails
- Optimized existing code to lower the average server response time by 20%

Assistant Programmer at Environment Canada

Jan 2017 - May 2017

- Wrote Bash scripts to automate the management of meteorological data
- Investigated data anomalies to isolate problems in complex climate models

PROJECTS

Winner of Kik Data Challenge at Hack the North (robbiemeyer.com/kdc) Sep 2018

- Identified spammers in high-dimensional data with 99.98% accuracy using machine learning techniques such as K-means clustering

Ontario Election Analysis (robbiemeyer.com/oea) Jul 2018

- Analyzed the 2018 Ontario Provincial Election results and the 2016 Canada Census to test the plausibility of claims about election trends
- Wrangled, visualized and interpreted data using Python, Pandas and PyPlot

vWolf (vwolf.robbiemeyer.com) Feb. 2017

- Created a web application using JavaScript and Firebase to facilitate the party game "Werewolf" for frictionless in-person play

EXTRACURRICULARS

Academic Representative for SYDE 2021

May 2019 - Now

- Facilitated communication between students and faculty

Waterloo Engineering Competition Organizer (Junior Design)

May 2019 - Now

- Planned an engineering design competition for first and second year students

SKILLS

Languages

- Python
- SQL
- Ruby
- JavaScript
- PHP
- HTML + CSS

Libraries and Frameworks

- Pandas
- Spark
- Firebase
- Rails

Tools

- Jupyter
- Google Analytics
- Git
- AWS

ACHIEVEMENTS

- Part of winning team for the Hack the North 2018 Kik Data Challenge
- Term Dean's Honour List for all previous terms

EDUCATION

University of Waterloo

3A Systems Design Engineering

Sept. 2016 - Apr. 2021

- Engineering Design
- Probability and Statistics
- Data Structures & Algorithms

Online Courses

Machine Learning by Stanford University on Coursera
Sept. 2017 - Dec. 2017

Deep Learning (ud730) by Google on Udacity
Jan. 2018 - Apr. 2018

INTERESTS

- Baking (especially pies)
- Board games