

ROBBIE MEYER

2B Systems Design Engineering Student

EXPERIENCE

Developer at Viryl Technologies

May. 2018 - Aug. 2018

- Developed new and existing features for ADAPT, a web portal that provides analytics and client communication tools for managing vinyl presses
- Created and optimized SQL queries to efficiently decode database data and present it to the user's in a useful form
- 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 code and implemented caching to lower server response time by 20%
- Utilized tools such as Google Analytics, New Relic, DoubleClick for Publishers and Hotjar to analyze site performance and user behaviour

Assistant Programmer at Environment Canada

Jan. 2017 - May 2017

- Wrote Bash scripts to automate the management and organization of dozens of terabytes of data
- Investigated anomalies in meteorological data using internal tools to isolate the problem within the complex climate model system

PROJECTS

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
- Cleaned, manipulated, visualized and interpreted data using Python, Pandas, PyPlot and other tools
- Disproved or verified claims such as the Green Party split the vote and older voters prefer the Progressive Conservatives

Teedler

Dec. 2017

- Reversed an anomaly detection algorithm to summarize text
- Implemented a multivariate Gaussian distribution using each word's frequency as a feature to find which sentences are most representative of the whole text

vWolf (vwolf.robbiemeyer.com)

Feb. 2017

- Created a web application using pure JavaScript to facilitate the party game "Werewolf" for frictionless in-person play
- Achieved seamless asynchronous communication of web clients by using Firebase (database and hosting)

SKILLS

- Ability to adapt and learn new skills quickly
- Strong communication skills
- Experience working in an Agile environment

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|----------|--------------|
| • Python | • JavaScript |
| • Ruby | • C++ |
| • PHP | • SQL |
| • Bash | • Pandas |
| • Octave | • Git |

ACHIEVEMENTS

- On Dean's Honour list for all previous school terms
- Bronze Governor General's Academic Medal for the highest graduating average at Alexander Mackenzie HS

EDUCATION

Systems Design Engineering Student at the University of Waterloo (2B Term)

Sep. 2016 - Present

- Past coursework includes Digital Computation and Advanced Engineering Math 1
- Current coursework includes Probability and Statistics and, Circuits, Instrumentation and Measurements

CLUBS & INTERESTS

- UW Debate Team
- Running
- Baking (especially pies)