TOBY **OGHRE**

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TECHNICAL SKILLS

- Java
- Python/scikit-learn
- C#/ .NET
- Git
- Apache Kafka
- Xamarin
- Elastic Search
- Postman
- Android Studio

EDUCATION

BACHELOR OF COMPUTER SCIENCE HONOURS (CO-OP) **SEPT 2015 – PRESENT**
UNIVERSITY OF MANITOBA **Expected graduation: DEC 2020**

- Specialization: Artificial Intelligence
- GPA: 3.9/4.5
- Undergraduate Research Award 2018, 2019
- Dev club Director of Communications 2019
- Deans honors list 2016 – present

WORK EXPERIENCE

APPLICATION DEVELOPER (CO-OP WORK TERM 3) **MAY 2020 – PRESENT**
NICHE TECHNOLOGY, WINNIPEG, MB

- Working on customizing NicheRMS application features to specific customers based on their requests using C++ and C# programming languages
- Converted platform dependent functions to cross platform functions using Xamarin and C#
- Improved application efficiency by creating a search component on the application to allow faster access to records

COGNITIVE ANALYTICS DEVELOPER (CO-OP WORK TERM 2) **SEPT 2019 – DEC 2019**
BLACKBERRY, WATERLOO, ON

- Spearheaded research into the introduction of Apache Kafka into a production pipeline using the Elastic Stack to increase fault tolerance and reliability
- Automated the intake and processing of log files using Python, Elastic search and Filebeats
- Cleaned logs using Regex and Python to prepare these logs for use in machine learning model

STUDENT RESEARCHER, DATABASES AND DATA MINING LAB **MAY 2019 – AUGUST 2019**
UNIVERSITY OF MANITOBA. SUPERVISOR: DR CARSON LEUNG

- Developed a program to perform frequent pattern mining on Toronto's bus delay Data (found here https://open.toronto.ca/dataset/ttc-bus-delay-data/) to prepare data for use in machine learning model.

- Implemented machine learning algorithms in Python (decision trees, random forest and KNN) to compare and enhance the predictive performance of an intelligent system that predicts how late a bus will be using historic data which improved accuracy by 10%
- Optimized the machine learning models with hyper parameter tuning and one-hot encoding to improve the performance of the models

SOFTWARE DEVELOPER (CO-OP WORK TERM 1) **JAN – APRIL 2019**
IQMETRIX, WINNIPEG, MB

- Created an API in C# .NET to customize the backend of a large scale retail management system to clients specifications
- Set up a monitoring system with Application Insights to monitor the health of the retail management system above
- Performed continuous integration testing using Postman to ensure code quality

PROJECTS

SCHEDULE-ME-UP (Software Engineering 2 project):
http://schedule-me-up.surge.sh/

- A cross platform application that allows users to easily schedule times for meeting
- Wrote server-side code in Node.js to create the routers and controller for our models

FITLOG (Software Engineering 1 project):

- An android app that enables individuals to plan and track their physical activity from anywhere
- Created a step counter feature in the application using android sensors

UMCOURSES (Human Computer Interaction project):

- A high-fidelity prototype of a course registration system built using Javascript, HTML and CSS
- Provided improvements on University of Manitoba's current course registration system Aurora