

# PAUL OWE

YORK UNIVERSITY, LASSONDE SCHOOL OF ENGINEERING  
ELECTRICAL ENGINEERING & COMPUTER SCIENCE  
4700 KEELE STREET, M3J 1P3 TORONTO, ON, CANADA

PERSONAL: [HTTPS://WWW.PAULOWE.COM](https://www.paulowe.com)

EMAIL: [PAUL.OWE@LIVE.COM](mailto:PAUL.OWE@LIVE.COM) / [PCOWE@MY.YORKU.CA](mailto:PCOWE@MY.YORKU.CA)

TEL: (+1) 647.771.0248

## RESEARCH INTERESTS

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Data mining, graph mining, and machine learning

## EDUCATION

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JUN 2020

### **B.A., YORK UNIVERSITY**

Department of Computer Science

Specialization area: (a) Data mining, (b) Databases (c) Design and analysis of algorithms. Final year project: Sentiment Analysis on Yelp Business Reviews

JUN 2016

### **I.B. Diploma, TEMA INTERNATIONAL SCHOOL**

Specialization area: (a) Computer science, (b) Economics (c) Information Technology in a Global Society. Extended Essay Topic: Detecting and preventing Online fraud in Banks

## EMPLOYMENT HISTORY

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MAY 2020 – PRESENT

### **RESEARCH ASSISTANT, YORK UNIVERSITY, CANADA**

Conducting research on the automatic retrieval and archiving of open educational resources where a logical tag hierarchy is formed and each OER object receives metadata used for search and information retrieval. Supervising professor: Dominique Scheffel-Dunand

MAR 2020 – PRESENT

### **DATA SCIENTIST, PHARMASSESS DIAGNOSTICS CORP, CANADA**

Interdisciplinary research project on natural language processing for entity recognition and symptom checking.

AUG 2019 – APR 2020

### **DATA ANALYTICS CONSULTING INTERN, KPMG**

Interacted with business clients and completed data quality assessments, knowledge mining and presentations

APR 2019 – AUG 2019

### **VOLUNTEER RESEARCH ASSISTANT, YORK UNIVERSITY, CANADA**

Department of Computer Science

Conducting research on genetic algorithms and genetic search by hyperplane sampling. Supervising professor: Zbigniew Stachniak

JUN 2018 – AUG 2018

### **SOFTWARE ENGINEER INTERN, SCORE PROMOTIONS, CANADA**

Research completed was related to (i) Frontend UI/UX design, and (ii) pulling product information from supplier websites.

JUN 2015 – AUG 2015

### **COMPUTER NETWORKS INTERN, AIRTEL TELECOMMUNICATIONS, TANZANIA**

Internship work involved (i) understanding industry standard network infrastructure(s), (ii) project management and monitoring of solutions to meet business requirements.

MAY 2014 – JUL 2014

### **IT INTERN, SIMPLY COMPUTERS, TANZANIA**

Internship work involved (i) managing software licenses for clients, (ii) installation and configuration of company software on new hardware inventory.

# PROFESSIONAL CONTRIBUTION

## LECTURES / TALKS

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DATE	LECTURE/TALK TITLE
JAN 20TH, 2020	Frequent Pattern and Association Rule Learning (EECS 4412: Data Mining )
APR 28TH, 2016	Knowledge networks in building and accumulation of knowledge. (IB Theory of Knowledge)

## LIST OF PUBLICATIONS

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### TECHNICAL REPORTS (NON-REFEREED)

- [TR4] Owe, P. (2020). Mining Twitter Data: Inside social media. Available online.
- [TR3] Owe, P., & Aleithan, R. (2020). Sentiment analysis on Yelp business reviews. Available online
- [TR2] Owe, P. (2018). Privacy preserving approaches for IoT in smart homes. Available online
- [TR1] Owe, P. (2016). An investigation on the effect of physician density on the infant mortality rate in LEDCs and MEDCs.

## SOFTWARE RELEASES

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DATE	NAME	BRIEF DESCRIPTION	URL
2020	MTA	A medical transcription service that provides comprehension via Speech processing and NLP. The solution opens a WebSocket and retrieves a real-time transcription and its analysis rendered on the UI.	<a href="https://github.com/paulowe/medical-transcription-analysis">https://github.com/paulowe/medical-transcription-analysis</a>
2020	ML-LAMBDA	A novel solution using the Serverless Framework to deploy a scalable condition classifier. This repository demonstrates how to build a cost effective REST endpoint for inference.	<a href="https://github.com/PharmAssess/ml-lambda">https://github.com/PharmAssess/ml-lambda</a> (Confidential due to an NDA)
2020	MINING-TWITTER	A study of the Twitter platform to understand the structural properties of networks, and perform graph mining. This repository connects to twitter's REST and Streaming APIs to model conversations, monitor user interactions on the platform and visualize results in a dynamic map.	<a href="https://github.com/paulowe/mining-twitter">https://github.com/paulowe/mining-twitter</a>
2020	MAPS4RESOURCES	A flask application for displaying location-based resources on a map.	<a href="https://github.com/paulowe/maps4resources">https://github.com/paulowe/maps4resources</a>
2019	AAPL-NEWS	An Apple News clone built using React. This project retrieves data from news API and features all the top stories for the day's date (changes every day). The client can also input search queries that retrieve news from GNews API topic endpoint.	<a href="https://github.com/paulowe/AAPL-NEWS">https://github.com/paulowe/AAPL-NEWS</a>
2019	NEWS-CRAWL	An efficient news crawler that extracts structured information from news websites. It can follow recursively internal hyperlinks and fetch articles. Combines state-of-the-art libraries and tools such as readability and scrapy.	<a href="https://github.com/paulowe/news-crawl">https://github.com/paulowe/news-crawl</a>

# HONORS, AWARDS & LEADERSHIP

## HONORS & AWARDS

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### UNIVERSITY LEVEL (YORK UNIVERSITY)

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|------|---|
| 2020 | AWS Activate AWARD, Amazon Web Services                                 |
| 2020 | Member of Dean's Honour Roll  |
| 2019 | 1st place Startup AWARD, Bergeron Entrepreneurs in Science & Technology |
| 2018 | 3rd place AWARD, Steacie Library Dungeon Hackfest                       |

### HIGHSCHOOL LEVEL (TEMA INTERNATIONAL SCHOOL)

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| 2016 | BEST STUDENT AWARD, IB COMPUTER SCIENCE HL |
| 2016 | BEST STUDENT AWARD, IB ITGS HL             |
| 2015 | BEST STUDENT AWARD, IB COMPUTER SCIENCE HL |

### LEADERSHIP

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|----------------|---|
| 2020 – Present | <p><b>Data Science Lead, PharmAssess Diagnostics Corp.</b></p> <p>My role as the Lead Data Scientist at Pharmassess has taught me how to lead a technical team in working on our data science projects within a specified timeline. I have a strong passion and vision that has helped me motivate my peers to be creative and go the extra mile. I am learning valuable leadership skills in this role and I look forward to continue growing into an exemplary leader.</p>  |
| 2015 – 2016    | <p><b>Organizer, Service Learning Outreach</b></p> <p>In my final year of the IB Diploma Program, I had the opportunity to lead and organize our CAS Service Learning Outreach. My role involved closely working with my peers and faculty at Tema International School to develop fund raising events that would be for the purpose of serving and promoting education in the Akorlikope village. During my term, I learnt how to take ideas and convert them into goals through budgets, organizing people and finding sponsors. This experience also taught me how to effectively work with people to achieve a common goal.</p> |