

PAUL OWE

EDUCATION

MSc. Data Science and Artificial Intelligence
University of London, London, United Kingdom

April 2021 – October 2022

BA. Computer Science
York University, Toronto, Canada

September 2016 – June 2020

WORK EXPERIENCE

Graduate Research Assistant, York University

May 2020 – Present

- Conduct research and develop methods for analyzing discourse and information cascades on social networks
- Widening my intellectual horizon through collaboratively solving interdisciplinary research problems

Lead Data Scientist, PharmAssess Diagnostics Corp.

March 2020 – February 2021

- Architected a 99% highly available and scalable machine learning solution for securely processing patient health information
- Secured \$40,000 funding from Amazon Web Services and McKesson Canada after negotiating and successfully deploying software in five Canadian pharmacies

Data Analytics Intern, KPMG

August 2019 – April 2020

- Consulted with a retail business to identify high value leads through methods such as cluster analysis, where I implemented an efficient algorithm to reduce the Davies Bouldin index from 2.35 to 1.07
- Simplified the process for extracting insights from the company's data lake using S3, Glue and Athena to store data in a cost-effective format and improve efficiency of queries

INDEPENDENT PROJECTS

Globally Networked Learning Environments

June 2019 – April 2021

- Built a cloud-native geolocation service on Google Cloud Platform that enables York University, Tecnológico de Monterrey and Universidad San Francisco de Quito to share resources in international classrooms
- Reduced object rendering time by 75% by implementing distributed caching at edge locations

Voice Enabled Banking Assistant

January 2020

- Collaborated in a team of three to create a voice application for Google Assistant to heighten a user's digital banking experience at the University of Toronto hackathon over the course of 2 days

ACADEMIC PROJECTS

Natural Language Processing, Data Mining

April 2020

- Predicted sentiment of Yelp business reviews with 91% accuracy by applying supervised machine learning
- Conducted multiple experiments and developed learning curves to diagnose and monitor model learning performance over time

Social Network Analysis, Big Data Systems

December 2019

- Performed a social network analysis to create a ranking dashboard of the top 1% influential accounts in twitter communities
- Created a PageRank analytics platform using Spring boot microservices to build a graph processing platform using Neo4j, Apache Spark, and RabbitMQ

SKILLS

Languages: Python, JavaScript, SQL, Java || Frameworks: Flask, TensorFlow, Apache Spark, Spring boot || Cloud: Amazon Web Services, Google Cloud Platform, Heroku || Software environments: Linux, JupyterLab, GitHub, Docker

AWARDS AND CERTIFICATES

- **Certificate**: AWS Cloud Practitioner Certification **May 2021**
- **Award**: \$30,000 - Amazon Web Services **September 2020**
- **Certificate**: Machine Learning Certification **August 2020**
- **Certificate**: KPMG Data Analytics Consulting Certification **April 2020**
- **Award**: 1st Place Startup Team (Bergeron Entrepreneurs in Science and Tech.) **November 2019**

VOLUNTEERING EXPERIENCE

- **Volunteer**: Raised \$10,000 through crowd funding for the purchase of educational materials and classroom renovation of a public primary school in Akorlikope, Ghana **July 2016**