# **ANDREI STOICA**

% andreistoica.ca/

in linkedin.com/in/andrei-stoica/

github.com/andrei-stoica

## **WORK EXPERIENCE**

#### **Teaching Assistant**

#### **Ontario Tech University**

## September 2017 - May 2020

- Oshawa, ON
- Lead classes of 20-25, junior and senior level undergraduate students through lab activities
- Corrected student work and provided one-on-one feedback for improvement
- Courses: Mobile Devices(Android), Programing Workshop, System Development and Integration, Web Development, Interactive Media, Compilers

#### **Graduate Research Assistant**

#### **Ontario Tech University**

September 2018 - Present

- Oshawa, ON
- Lead the research on text mining and natural language processing queries in relational databases
- Topics and Technologies used: PostgreSQL, topic modeling, NLP, Python, web services

# **PROJECT EXPERIENCE**

## NLP Relational Queries And Its Applications - Thesis Project

- Developed LDA extension to PostgreSQL to allow Topic Modeling of text columns inside of SQL
- Created a web front end to visualize the change in topics over time for academic authors and venues
- Published 2020 IEEE International Conference on Information Reuse and Integration for Data Science

Technologies: Python SQL/PostgreSQL Flask HTML CSS D3.js

#### Scalable Analysis of Open Data Graphs

- Performed analysis of similarities between documents through Canada's Open Data portal
- Provided insight into organization and connectedness of Canada's Open Data
- Scalable and Distributed code base to allow for large dataset and scaling with time
- Published and Presented at 2019 IEEE International Conference on Information Reuse and Integration for Data Science

Technologies: Python SQL/PostgreSQL Apache Spark/PySpark

Matplotlib GCP Storage GCP Dataproc

#### **Canadian Political Twitter Analysis**

- Built tools to track and analyse the conversation surrounding Canadian politics on Twitter
- Tracked key figures and CDNPoli hashtag and predicted standings in 2019 election

Technologies: Python Tensorflow SQL/PostgreSQL

Matplotlib

# **EDUCATION**

BSc (Hons.) - Computer Science
Ontario Tech University

**#** 2018

Oshawa, ON

MSc - Computer Science
Ontario Tech University

Graduating 2020

Oshawa, ON

## **SKILLS**

**Programming** Python Java Clojure | C/C++ | Kotlin Scala **Data Science:** Numpy Scipy NLTK Gensim | Pandas | IPython Notebooks **Database:** PostgreSQL MongoDB Web Services: Flask NodeJS Web Frontend: HTML **CSS** ClojureScript JavaScript Reagent React **JQuery Al/ML:** Tensorflow scikit-learn word2vec | fasttext

# **PUBLICATIONS**

## Conference Proceedings

- Stoica, A., K. Pu, and H. Davoudi (2020).
   "NLP Relational Queries And Its Applications". In: 2020 IEEE 21th International Conference on Information Reuse and Integration for Data Science (IRI).
- Stoica, A., M. Valdron, and K. Pu (2019). "Scalable Analysis of Open Data Graphs". In: 2019 IEEE 20th International Conference on Information Reuse and Integration for Data Science (IRI), pp. 334–341. DOI: 10.1109/IRI.2019.00059.

## **HOBBIES**

- Free and open source software enthusiast
- Maintain a home media and storage server for family running the latest Ubuntu LTS
- Build computers for others, source and consult on components required, install and teach them to install themselves