ANDREI STOICA

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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
AI/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