ANDREI STOICA, M.Sc.

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OBJECTIVE

Recent graduate with a Master's degree in computer science seeking a challenging role to apply my deep knowledge of data processing and build high-value data applications.

SUMMARY

Recent Master's graduate with experience in data engineering, machine learning, natural language processing(NLP), databases, and research at an Ontario University. Core competencies are designing and implementing data pipelines, training machine learning models, data mining, developing database applications, and creating visualizations to analyze large datasets. With an interest in independent game development.

CAREER HIGHLIGHTS

- Contributed to production codebase within 2 weeks of starting at the Block
- Published paper that demonstrated how NLP techniques applied to relational databases can increase insights extracted from unstructured text fields
- Published paper that outlined a graph-based framework to explore unstructured massive datasets and discover interesting relationships in the data

SKILLS

• Python	• NLP	• PostgreSQL	• JavaScript	• React
• TensorFlow	• Airflow	• Java	• TypeScript	• MongoDB
• Pandas	• Gensim	• C/C++	• HTML	• CSS

EXPERIENCE

Lone Wolves, Whitby, Ontario, Canada   April 2023 - present

Independent Game Developer – April 2023 - present
- Design and implement gameplay features
- Collaborate with artists to transfer assets to the game engine
- Maintain build pipelines for effective developer experience
- Released games:
  - The Happy Hippogriff (TOJam 2024)
  - Lizzie's Travels (TOJam 2023)
- **Skills**: C++, Unreal, Unity, Godot

THE BLOCK CRYPTO, New York, New York, USA   August 2022 - April 2023

Data Engineer (contract) – August 2022 - April 2023
- Build Airflow pipelines that ingested trading data from numerous crypto exchanges
- Collaborated with members of the research team to ensure data quality
- Maintained pipelines to ensure stability during upstream downtime and API changes
- **Skills**: Python, SQL, AWS, Airflow, Pandas, Data processing

ONTARIO TECH UNIVERSITY, Oshawa, Ontario   May 2018 - August 2020

Graduate Research Assistant – May 2018 - August 2020
- Collaborated in a team of 3 to build tools to track and analyze public opinion of political parties and MPs.
- Wrote Python scripts to extract data from Twitter tweets and stored them in PostgreSQL databases.
- Developed and trained machine learning models using TensorFlow to predict the sentiment of tweets and then fed data into visualization tools to monitor public sentiment over time.
- Built PostgreSQL extension for effective NLP queries in a relational database
- **Recognition**:
    - 2 Papers Published: *NLP Relational Queries and Its Application*, *Scalable Analysis of Open Data Graphs*
- **Skills**: Python, PostgreSQL, NLP, Data processing

EDUCATION

ONTARIO TECH UNIVERSITY, Oshawa, Ontario
M.Sc. Computer Science - 2022
B.Sc. Computer Science - 2018

RECOGNITION

Publication: NLP Relational Queries and Its Application
- 2020 IEEE 21st International Conference on Information Reuse and Integration for Data Science (IRI), pp.395-398
- DOI: 10.1109/IRI49571.2020.00064.

Publication: Scalable Analysis of Open Data Graphs
- 2019 IEEE 20th International Conference on Information Reuse and Integration for Data Science (IRI), pp.334-341
- DOI: 10.1109/IRI.2019.00059