Noah Frank

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WORK EXPERIENCE

Aetion (Replica Analytics) — Victoria, BC (Remote)
Machine Learning Engineer II — Feb. 2023 - Jun. 2024
Machine Learning Engineer I — Nov. 2021 - Feb. 2023

- Developed a scalable synthetic data generation SaaS product, integrating machine learning models into production-level software
- Optimized large-scale ML pipelines and algorithms using distributed clusters with technologies such as PySpark and Ray
- Led the cross-team collaboration between data science and engineering to integrate research findings into the product
- Deployed an automated benchmarking system to track model metrics, validating the product requirements between releases

XplorSpace — Vancouver, BC (Remote)
Data Science and Machine Learning Intern — Jun. 2021 - Aug. 2021

- Trained a real-time computer vision model on maritime vessel data for detecting and monitoring offshore vessel movements
- Developed a proof-of-concept time series model to predict continuous blood pressure measurements non-invasively
- Prepared detailed reports to communicate ML findings to stakeholders of varying technical backgrounds effectively

Nokia — Ottawa, ON
Network Solutions Specialist (Co-op) — May 2019 - Aug. 2019

- Developed automation scripts for router configuration to enhance the network management user experience
- Automated testing and validation of customer network configurations using Python, improving configuration reliability
- Generated data-driven reports to visualize the impact of automated network configurations

Web Software Developer (Co-op) — May 2018 - Aug. 2018

- Developed software to organize and visualize customer network traffic for an internal network management tool
- Created and maintained full-stack web applications using Java, SQL, and JavaScript
- Coordinated software development with an agile team of developers and provided detailed reports on progress

EDUCATION

McMaster University — Hamilton, ON
Master of Engineering, Electrical & Computer — May 2020 - Apr. 2021

- Graduated Summa Cum Laude, 4.0 GPA
- Relevant Courses: Digital Signal Processing, Data Science, Matrix Computations in Signal Processing

Bachelor of Engineering, Electrical & Biomedical — May 2020 - Apr. 2021

- Graduated Summa Cum Laude, 3.6 GPA
- Relevant Courses: Statistics, Data Structures and Algorithms, Modelling of Biological Systems

PROJECTS

MAMMOGRAM SEGMENTATION U-NET

- Developed a deep learning-based segmentation model for pectoral muscle detection in mammograms, a key component in medical image analysis and early-stage breast cancer screening

BOARD GAME GENRE CLASSIFIER

- Implemented an NLP-based classification system using logistic regression, applying natural language processing techniques for the analysis and categorization of board games based on genres

ADDITIONAL

Technical Skills: Machine Learning, Distributed Computing, Data Analytics, Data Modeling, Data Visualization
Languages: Python, R, SQL
Tools and Frameworks: Scikit-Learn, Pandas, Spark, Numpy, Scipy, MLflow, Jupyter, GitHub, Docker
Certifications & Training: IBM Machine Learning Professional Certificate (Coursera)
Involvement: NeuroTechX McMaster Student Club, McMaster Artificial Intelligence Society