ALEXANDER MCINTOSH

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WORK EXPERIENCE

Optum - Data Science and Engineering Associate   Jul. 2023 - Present

- Engineer a large language model multi-agent system to perform statistical analysis and generate graphs
- Offer self-service analysis bot through Semantic Kernel, JavaScript Azure Bots, Python Azure Functions
- Automate document comparison with text embeddings to save hundreds of hours of labor annually
- Train a state-of-the-art forecast and anomaly detection model on key leading indicators
- Identify anomalies in billions of records and Kafka streaming data
- Evaluate artificial intelligence system output on performance, accuracy, and bias

Constelleum LLC - Software Engineer   Mar. 2020 - Present

- Design a physically accessible multiplayer online video game written in GDScript
- Automate testing and validation of client and server computation
- Analyze event logs for trends to inform balanced game design
- Deploy and maintain a website written in Ruby, SASS, and HTML

Employment Specialist - Stevens County DAC   Jan. 2022 - May 2022

- Delivered employment training and services to Stevens County residents with disabilities
- Implemented Minnesota state policies and educated administrators and job coaches on updates
- Planned and executed employment program, overseeing a team of 8 job coaches

Job Coach - Stevens County DAC   Oct. 2021 - Jan. 2022

- Coached 30+ individuals on job expectations and responsibilities
- Organized and led customized enrichment activities for accessibility service recipients

EDUCATION

Master of Liberal Arts in Data Science - Harvard Extension School   Expected Dec. 2025

- MySQL | Business Intelligence | Big Data | Natural Language Processing | Data Visualization

Statistics and Data Science MicroMasters - MITx   Dec. 2023

- PyTorch | Deep Neural Networks | Statistical Modelling | High Dimension Analysis | Simulation

Bachelor of Arts in Physics - Saint John's University - Collegeville, MN   Dec. 2021

- Minors in Mathematics and Music | Phi Beta Kappa Key Holder | Men's Chorus President

CERTIFICATIONS

SQL for Data Science Specialization - University of California, Davis   Feb. 2023

- SQL | PySpark | Databricks | Distributed Databases | Business Intelligence

Azure Data Scientist Associate - Microsoft   Jan. 2023

- TensorFlow | Databricks | Data Pipelines | MLOps | Cloud Architectures | Distributed Computing

Applied Data Science with Python Specialization - University of Michigan   Nov. 2022

- Python | NumPy | Pandas | scikit-learn | matplotlib | Seaborn | NLTK | NetworkX | Data Mining

Data Science Professional Certificate - HarvardX   Aug. 2022

- R | Tidyverse | ggplot2 | Git | Data Wrangling | Data Visualization | Recommender Systems