ALEXANDER MCINTOSH

alexander_mcintosh@optum.com • github.com/mcintalmo • linkedin.com/in/mcintalmo • Minneapolis, MN

EDUCATION

Statistics and Data Science MicroMasters - MIT via edX   **Expected Dec. 2023**
- PyTorch | Neural Networks | Natural Language Processing | Statistical Inference | High Dimensional Analysis

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 via Coursera   **Feb. 2023**
- SQL | Apache Spark | Databricks | Distributed Computing | Business Intelligence

Azure Data Scientist Associate - Microsoft   **Jan. 2023**
- TensorFlow | Distributed Computing | Databricks | MLOps | Distributed Databases

Applied Data Science with Python Specialization - University of Michigan via Coursera **Nov. 2022**
- Python | NumPy | Pandas | scikit-learn | matplotlib | Seaborn | NLTK | Network Analysis | Data Mining

Data Science Professional Certificate - Harvard University via edX   **Aug. 2022**
- R | Tidyverse | ggplot2 | Git | Data Wrangling | Visualization | Inference | Machine Learning

WORK EXPERIENCE

Optum, Generative AI Analyst   **Jul. 2023 - Present**
- Engineered a large language model to perform complex data analysis by generating and runningSQL queries and Python code
- Implemented a retrieval-augmented generation pattern to inject business segment-specific metadata and definitions
- Tested generative artificial intelligence output for veracity, quality, and safety
- Developed a conversational Azure bot in JavaScript, deployed in a cloud environment
- Evaluated various time series models on forecast error and anomaly detection rates for key performance indicators
- Authored press release materials, documentation, and delivered presentations to stakeholders

Constelleum LLC, Software Developer   **Mar. 2020 - Jul. 2023**
- Designed an accessibile multiplayer online video game written in GDScript
- Automated testing and validation for server-side and client-side computational code
- Analyzed event logs to identify trends and inform balanced design

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
- Crafted and executed employment plans, 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 services recipients