

# ALEXANDER MCINTOSH

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## EDUCATION

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### Statistics and Data Science MicroMasters - MIT via edX Dec. 2023

- PyTorch | Deep Neural Networks | Natural Language Processing | 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

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### SQL for Data Science Specialization - University of California, Davis via Coursera 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 via Coursera Nov. 2022

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

### Data Science Professional Certificate - HarvardX via edX Aug. 2022

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

## WORK EXPERIENCE

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### Optum - Generative AI Analyst Jul. 2023 - Present

- Offer self-service data analytics backed by a large language model multi-agent system performing complex analysis
- Automate document comparison with a text embedding model to save hundreds of hours of labor annually
- Train a state-of-the-art forecast and anomaly detection model for key performance indicators
- Engineer machine learning models to recommend next actions for claims adjudicators
- Evaluate artificial intelligence output for quality, veracity, and compliance with ethical standards
- Author press release materials, document code, and present to stakeholders

### Constelleum LLC - Software Developer Mar. 2020 - Jul. 2023

- Designed an accessible multiplayer online video game written in GDScript
- Automated testing and validation of client and server computation
- Analyzed event logs for trends to inform balanced game 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
- 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