

# MATTHEW MO

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## EDUCATION

### University of Waterloo

Bachelor of Mathematics, Data Science (Co-op)  
Cumulative Average: **85%**

Waterloo, ON

Sept. 2024 – May 2028

## PROJECTS

### LinkedIn (GeeseHacks - Best Beginner Hack) | React(JS), Tailwind(CSS), HTML, Python, Selenium

- Developed a web application that automates LinkedIn job searches using Selenium, extracting profiles based on specified roles and companies.

### AgeWell – Alzheimer's Safety & Independence Platform | React, Express, Python, YOLOv8, MediaPipe, Twilio, MongoDB, Leaflet

- Built an integrated caregiver–patient web application in a 36-hour hackathon featuring YOLOv8 + MediaPipe fall detection, OCR-based consumption recognition, live location tracking, Twilio emergency alerts, and MongoDB logging.

### Stock Dashboard | Python, Streamlit, Plotly, yfinance, Pandas

- Built an interactive dashboard to visualize stock prices, moving averages, cumulative returns, drawdowns, and key performance metrics with color-coded daily changes and CSV export.

### Customer Churn Prediction | Python, scikit-learn, pandas, matplotlib

- Developed a Random Forest classifier to predict customer churn with 78.5% accuracy on 7,000+ telecom customers, applying data preprocessing, one-hot encoding, and feature engineering techniques.
- Identified top 3 churn predictors through feature importance analysis (monthly charges, tenure, contract type), delivering actionable insights for targeted retention strategies.

### Sentiment Analysis - Movie Reviews | Python, scikit-learn, nltk, pandas, numpy, matplotlib

- Built an NLP sentiment classifier achieving 88.7% accuracy on 50,000 IMDB movie reviews using Logistic Regression, applying text preprocessing, stopword removal, and TF-IDF vectorization with 5,000 features.
- Compared multiple classification algorithms (Logistic Regression vs Naive Bayes), demonstrating balanced performance with 87% recall on negative reviews and 90% recall on positive reviews.

### Monte Carlo Stock Simulation | Excel, VBA

- Developed an Excel-based simulation program to project probable returns for individual stocks or the entire market, compiling thousands of simulated scenarios into one data model.
- Generated data-driven insights by simulating potential market outcomes over specified time periods, supporting informed investment decision-making and risk analysis.

## SKILLS

**Languages:** Python, R, Java, Javascript, C, C++, HTML/CSS, SQL, Excel VBA

**Libraries and Frameworks:** Python: NumPy, YFinance, Pandas, Matplotlib, Flask, Scikit-learn, Scipy, Plotly, Streamlit, nltk

**Soft Skills:** Teamwork, Organization, Critical thinking, Responsibility, Eager to learn, Quick Learner

## EXPERIENCE

### Accounting Associate

May 2025 – Aug 2025

Stratos Solutions Inc. - Collaborating with Anderson Global

Toronto, ON

- Worked alongside senior staff on accounting and tax consulting projects, analyzed client accounting data and prepared in-depth tax research reports.
- Conducted tax and invoice overpayment recovery analysis using data-driven models, prepared detailed financial reports and cost analysis for major corporations such as Boeing and PW&C that contributed to recovering over \$1M in tax credits while ensuring compliance with contractual requirements.
- Leveraged Microsoft Office Suite, including advanced Excel functions and VBA, to streamline financial analysis and reporting, reducing tasks that typically took 3 hours to just 10 minutes for client deliverables.

### Computer Science Tutor

Sept. 2022 – June 2024

Students Supports Students

Toronto, ON

- Taught basic and foundational computer science concepts to a class of 8-14 children (ages 10-12) in a weekly session, fostering early tech skills and problem-solving abilities through engaging, age-appropriate activities.