MATTHEW MO

📞 437-982-6562 | ✉ mzmo@uwaterloo.ca | in linkedin.com/in/matthew-mo520 | ⌨ github.com/MatthewMo520 | 🌐 matthew-mo.com

EDUCATION

University of Waterloo   Waterloo, ON
Bachelor of Mathematics, Data Science (Co-op)   *Sept. 2024 – May 2028*
Cumulative Average: **85%**

PROJECTS

LinkedIt (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.

EXPERIENCE

Data Science Intern - Incoming Winter 2026   Jan. 2026 – April 2026
Scotiabank   *Toronto, ON*
- Building pricing and product recommendation models

ML Engineer   Nov. 2025 – Present
AgSights   *Elora, ON*
- Developing an AI-powered voice-enabled system integrated with Microsoft Dynamics to automate farm record entry through phone-based data collection.
- Building speech-to-text pipeline with ML-based data extraction to parse farmer voice inputs and map structured information to appropriate database columns.

Accounting Associate   May 2025 – Aug 2025
Stratos Solutions Inc. - Collaborating with Anderson Global   *Toronto, ON*
- 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.

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