

RICHARD MENG

Toronto, ON, Canada

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Education

University of Waterloo

September 2025 - June 2030

Bachelor of Computing and Financial Management (Honours, Co-op)

Waterloo, ON

- Double Major in Computer Science and Finance
- Cumulative Average: 92.60% | Recipient of President's Scholarship of Distinction
- Relevant Coursework
 - * Functional Programs (CS) (93%)
 - * Linear Algebra (95%)
 - * Financial Data Analysis (90%)
 - * Accounting (93%)
 - * Calculus (92%)

Experience

JITAI Technical Solutions Architect

June 2026 – September 2026

MDPharma (WEAccelerate)

Toronto, ON

- Engineered an Azure-based JITAI health system spanning data collection/cleaning, ML training, and intervention
- Designed scalable end-to-end data and model workflows for real-time, personalized health interventions
- Outlined data pipelines and model workflows to enable personalized, context-aware health support for Gen Z

Software/Game Developer

June 2024 – September 2024

No Fuss Tutors (Startup)

Toronto, ON

- Built and shipped interactive educational games used by 500+ students using React and Konva
- Collaborated in a fast-paced 5-person startup team environment using Git/GitHub for version control
- Optimized UI and game logic to reduce load/runtime by 2-3 seconds, improving responsiveness for students

Projects

RouteVision (CxC AI 2026 Winner) | *Python, React, FastAPI, YOLOv8, OpenCV, Gemini AI*

February 2026

- Engineered an AI-powered American Football analysis tool with React, scoring receiver openness and decision making
- Built a computer vision system in python analyzing 1000+ clips to detect player positioning and generate insights
- Integrated Gemini API, producing live and relevant insights on receiver positioning and quarterback decisions

ReelSense | *Python, scikit-learn, pandas, NumPy, TMDB*

December 2025

- Pioneered a content-based movie recommendation system with scikit-learn, providing top 6 recommendations
- Used plot description vectorization and cosine similarity with pandas to compare results across 5000+ films
- Personalized results using user-selected keywords, genres, themes, and moods, comparing to TMDB API results

Stock Robo Advisor | *Python, pandas, NumPy, yfinance, SciPy, Matplotlib, Jupyter Notebook*

November 2025

- Implemented a portfolio optimizing pipeline using SciPy (SLSQP) to compute 10-25 optimal asset weights
- Improved asset-weight optimization and run-time efficiency by 2x using multithreading and worker pools
- Optimized weights using risk-adjusted returns, visualizing outperformance of the S&P 500 by 1.70% in December 2025

Technical Skills

Languages: Python, Java, C, Racket, TypeScript, JavaScript, HTML/CSS, Bash, NodeJS

Libraries: OpenCV, YOLOv8, FastAPI, pandas, NumPy, SciPy, scikit-learn, Matplotlib, yfinance, numpy-financial

Frameworks/Tools: React, Linux, Jupyter Notebook, Git, Bootstrap, Flask, Plotly, Streamlit, Azure, VS Code, Django

Awards

Azure AI + Cloud Computing Certificates

June 2026

AZ-900 + AI-900 certificates

Canada

CxC AI Hackathon - Most Technically Impressive Project

February 2026

Most Technically Advanced / Biggest Wow Factor - RouteVision

Waterloo, ON