May Yan

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Education

McMaster University   **Hamilton, Ontario, Canada**
Bachelor of Engineering · Software Engineering   **Sept 2022 - May 2027**

Coursework: Data Structures and Algorithms, Applications of Machine Learning, Object-Oriented Programming, Databases, Concurrent System Design, Linear Optimization, Software Requirements, Software Testing, Large System Design, Operating Systems

Awards and Distinctions: Granted the Engineering Award of Excellence for having an admission average exceeding 95%

Experience

IT Solutions Specialist   **May 2025 - Present**
Fujifilm Canada Inc.   **Mississauga, ON**

- Developed a full-stack application using C# .NET Core APIs and a React + TypeScript frontend integrating Three.js to enable interactive 3D product modeling reducing prototype development time by ∼40% by replacing physical samples with accurate 3D renderings
- Wrote Docker and CI/CD YAML files and managed secrets across development, staging, and production environments.
- Designed SQL queries in PostgreSQL involving CTEs, joins, window functions, and aggregations to extract insights from large datasets
- Implemented a RAG-based conversational AI chatbot using LangChain and vector search to query social media transcripts and metadata for trend analysis.

Sales Associate   **July 2023 - August 2024**
Uniqlo Canada   **Newmarket, ON**

- Collaborated seamlessly with a large team of up to 20 people, fostering a positive and cohesive work environment to achieve sales targets up to $20,000 a day and deliver exceptional customer service
- Effectively managed customer inquiries, processed, transactions, and addressed concerns with professionalism
- Leveraged strong organizational skills to manage inventory levels, restock merchandise, and ensure the visual presentation of the store

IT Technical Assistant   **November 2022 - April 2023**
McMaster University   **Hamilton, ON**

- Demonstrated quick learning by swiftly grasping new concepts and technologies essential for providing technical support and assistance
- Used Jira to track project tasks and manage inventory of IT equipment, ensuring efficient resource allocation and timely resolution of technical issues

Projects

- **BirdScout** Collaborated effectively within a small team environment to develop BirdScout, a mobile application that identifies bird species from user input. Built using React Native and integrated Supabase for backend database management. Integrated Google Gemini AI Vision APIs into the mobile app to perform image classification.
- **Maze Runner** Implemented a graph-based pathfinding system using BFS, optimized for performance and correctness. Coded in Java adhering to object-oriented programming principles and incorporating graph theory fundamentals

Skills

Programming Languages & Frameworks: Python, Java, C#, Bash, HTML/CSS, JavaScript, TypeScript, React, SQL, PyTorch/TensorFlow, LangChain

Technologies and Tools: Git, LINUX/UNIX, PostgreSQL, Microsoft Azure, Docker