

# Yu Ying Wu

MSc Information Systems | Full-Stack Developer | AI Engineer | MES Technical Lead

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## PROFESSION SUMMARY

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Master's student in Information Systems at Northeastern University with 4+ years of experience in **full-stack development** and **cloud-native development** using Java, Python, React, and Angular. Skilled in **REST API integration, Kubernetes, Docker, and Azure**, with hands-on exposure to **AI/ML and GenAI tools** including TensorFlow, and OpenAI APIs. Collaborative and adaptable, with proven experience leading cross-functional teams across countries and a strong motivation to learn and apply emerging technologies in cloud and network services.

## SKILLS

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**Programming & Full-Stack:** Java, Python, C#, Django, REST APIs, React, Angular

**Cloud & DevOps:** Kubernetes, Docker, Microsoft Azure, Git, Linux

**AI/ML:** TensorFlow, Hugging Face, OpenAI APIs, LangChain

**Databases:** MySQL, MS SQL

**Software Engineering:** OOP, Design Patterns, Algorithms, Unit Testing, SDLC

**Collaboration:** Project Management, Communication, Cross-functional teamwork

## WORK EXPERIENCE

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**AI & Data Automation Intern @ Rural Ontario Institute, Canada.** Mar 2025 – May 2025

- Developed an OpenAI- and LangChain-based workflow to generate SQL queries and automate chart creation, streamlining data analysis and reporting for ROI.

**Lead Software Engineer @ RoviSys Pte. Ltd, Taiwan** Sep 2022 – Aug 2024

- Led an 8-member team on a **MES** system integration project using **C#, Angular, and Azure**; coordinated across 4 countries, increasing story point throughput by 33%.
- Replaced legacy ABS SCADA with Ignition, integrating Modbus and OPC UA controllers for centralized monitoring and improved reliability.

**Software Engineer @ Tajen University, Taiwan** Sep 2021 – Mar 2022

- Led a 2-developer team to build a medical education platform (website and mobile app) using Python, MySQL, and React, achieving 100 daily active users in the first quarter.

**Software Engineer @ Chung Yo Internet Information Co.Ltd, Taiwan** Jul 2020 – Feb 2021

- Developed an AI-driven project achieving over 75% prediction accuracy.
- Containerized the project with Docker and Kubernetes to streamline deployment and maintain.

**MIS Engineer @ SHINEWAVE PRIVATE LIMITED, Taiwan** Jul 2020 – Feb 2021

- Built an HRM system module using MQTT and WPF, adding three core features and optimizing 80% of UI for better performance and usability.

## EDUCATION

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**M.Sc. Information Systems @ Northeastern University, Toronto** Jan 2025–Dec 2026

- **SupportChain Blockchain:** Developed a secure, decentralized support platform using smart contracts with encryption, access control, and transparent on-chain resolution.
- **Fraud Detection in Financial Transactions:** Built ML models (regression, random forest, PCA) to detect anomalies and improve fraud risk management.

**B.Eng. System Engineering @ ChengKung University, Taiwan** Sep 2016–Jun 2020

**Exchange Program @ Technical University of Ostrava, Czech Republic** Sep 2018–Feb 2019