

Tony DiRubbo

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Education

Syracuse University, School of Information Studies, Syracuse, NY May 2026

M.S. Applied Data Science; *Secondary Cores*: Artificial Intelligence, Data Pipelines and Platforms – 4.0 GPA

Relevant Coursework: Software Engineering for AI Applications | Deep Learning | Applied Machine Learning | Natural Language Processing | Scripting for Data Analysis | Big Data Analytics | Mobile Development

St. John Fisher University, Rochester, NY, *Summa Cum Laude*

May 2024

B.S. Computer Science; **B.S. Media Management**; Minor in Data Analytics – 4.0 GPA

Relevant Coursework: Web Design | Database Management and Security | Econometrics | Networking

Applicable Technical Skills/Certifications

Programming & ML: Python (TensorFlow, PyTorch, Scikit-learn, NumPy, Flask), R, Java, C/C++, Swift

Data Engineering & Cloud: SQL, Snowflake, dbt Cloud, MongoDB, Docker, Microsoft Azure, Vector DBs

Analytics & BI: Power BI, Tableau, SPSS, Excel (Pivot Tables, Solver, VBA)

Web & App Development: JavaScript, HTML/CSS, Bootstrap, Electron, WordPress, Google Analytics, Flutter

Work Experience

Digital Workflow / System Automation Co-op, Tessy Corporation, Syracuse NY December 2026 – Present

- Reverse-engineered SmartSheet workflows to extract logic and enable digital migration
- Built automated Microsoft 365 solutions using Power Automate, SharePoint, and Power Apps
- Developed pseudocode and modular logic to improve workflow scalability
- Implemented data validation, error handling, and documentation for reliable automation

Global Master Data / Project Analyst Co-op, CooperVision, Rochester NY March 2025 – August 2025

- Utilized Java, Visual Basic, and Oracle to develop applications to assist with the data pipeline
- Constructed Python scripts to perform large-scale data changes and updates
- Reviewed and signed-off on data entry/changes to ensure data governance between regional systems
- Pulled data for inquiry and analysis for finance, sustainability, and customer service teams using SQL

Project Experience

Large Language Model Dietician App *Software Engineering for AI Applications* Fall 2025

- Built a multi-agent AI application to provide personalized recipe recommendations based on user goals
- Integrated OpenAI API to automatically detect pantry ingredients from photos for quick analysis
- Orchestrated AI agents with LangChain to work in parallel to sort recipes with quick response
- Implemented persistent user profiles with long-term memory to maintain dietician goals and preferences

Data Warehouse Optimized ETL *Data Warehouse Management* Fall 2025

- Built a Python, Snowflake, and dbt, ETL pipeline to ingest IMDb data and load conformed dimensions
- Modeled fact tables for ratings, releases, and genre trends with clear grains, keys, and documentation
- Designed dimensional schemas for title, genre, time, person, and country to standardize analytics
- Created Power BI dashboards to visualize rating patterns, release volumes, and genre performance

Leadership Experience

Team Lead, Nexis Technology Lab, Syracuse NY January 2025 – December 2025

- Built *MindFeed*, an iOS app that generates short-form educational videos for high school students
- Built the Swift frontend and integrated OpenAI APIs with the newly released Sora 2 video pipeline.
- Led weekly meetings, managed timelines, and planned tasks across frontend, backend, and ML groups