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 | Data Administration Concepts and Database Management | Big Data Analytics

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 Development | Discrete Mathematics | Econometrics | Networking | DB Security

Applicable Technical Skills/Certifications

Programming & ML: Python (TensorFlow, PyTorch, Scikit-learn, NumPy, Flask), Java, C#, C++, Swift, n8n
Data Engineering & Cloud: SQL, Snowflake, dbt Cloud, MongoDB, Chroma, Docker, Microsoft Azure, AWS
Web & App Development: JavaScript, HTML/CSS, Bootstrap, Electron, WordPress, Flutter, .NET
Analytics & BI: Power BI, Tableau, SPSS, Excel (Pivot Tables, Solver, VBA), R, Google Analytics

Work Experience

Digital Workflow / System Automation Co-op, Tessy Corporation, Syracuse NY   *December 2025 – Present*
- Assisted in maintaining and extending backend services written in C# within a production environment
- Created and optimized SQL stored procedures for frontend integration using Azure web services
- Built automated Microsoft 365 solutions using Power Automate, SharePoint, and Power Apps
- 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