

Jack J. O'Callaghan

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Career

I am a fourth year applied mathematics and computer science student seeking a data analyst internship to leverage strong mathematical foundation and programming skills in developing data driven solutions to real-world problems.

Technical Skills

Data Analysis: Pandas, NumPy, R Excel (Advanced Functions)

Data Visualization: Power BI, Tableau, Matplotlib, Excel Dashboards

Databases: SQL, Snowflake, MySQL

Programming: Python, R, SQL

Education

University of Wisconsin-Stout, Menomonie, WI

Bachelor of Science in Applied Math and Computer Science

Concentration: Interdisciplinary with Sustainability

Expected Graduation: December 2026

Experience

Solution Engineer Intern, Datatelligent, Glen Ellyn, IL

June 2025 – Present

Developed Power BI dashboards and optimized Python scripts for data extraction and ETL processes.

Connected with Snowflake to create SQL tables/views and built ML feature optimization models for clients.

Collaborated with team members to gather feedback and design data products for customer needs.

Resident Advisor, University of Wisconsin Stout Housing, Menomonie, WI

August 2024 – December 2024

Supervised and supported 35+ residents, fostering a safe and inclusive living environment.

Planned and executed monthly events promoting community engagement and personal development.

Mediated conflicts and enforced university policies to maintain dormitory standards.

Math Tutor, University of Wisconsin Stout Math Department, Menomonie, WI

August 2023 – December 2023

Tutored 8-10 students weekly in subjects ranging from Algebra I to Differential Equations.

Analyzed student performance patterns to develop personalized learning strategies.

Improved comprehension rates by identifying and addressing knowledge gaps.

Projects

Advocacy Analytics Dashboard | Power BI

- Created an anatomized demo dashboard that analyzed advocacy patterns across the USA regions, to highlight Dataentelligent product options.

Feature Optimization Model | Snowflake, ML

- Developing a machine learning model using Snowflake's built-in ML features to optimize client data processing workflows.

Waste Management Database System | MySQL

- Designed and implemented relational database system for waste management operations during study abroad program in Ireland.

Personal Expense Tracker | Python, SQLite, Machine Learning

- Building an expense tracker that analyzes my personal spending patterns and implements ML-powered spending trend prediction and analysis capabilities.

Leadership & Involvement

Treasurer, Coding Club

August 2024 – May 2025

Managed club budget and coordinated funding for competitions and food for club meetings.

Organized weekly coding sessions and technical workshops for 10+ members.

Member, AI Club

August 2024 – May 2025

Participated in machine learning workshops and collaborative projects.

Contributed to discussions on AI ethics and emerging technologies.

Relevant Coursework

Data Structures & Algorithms, Machine Learning, Database Systems, Probability & Mathematical Statistics I-II, Linear Algebra & Differential Equations, Calculus I-III