

# **Jack J. O'Callaghan**

oallaghanj0577@my.uwstout.edu | 630-750-5855 | Lombard, IL | LinkedIn: Jack O'Callaghan

## **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