

Aidan Calderhead

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SKILLS

Analytics Tools: Python (Pandas, scikit-learn, PuLP, SimPy), Jupyter, Git, R (Tidyverse), SQL, Excel, Tableau
Statistical Analysis: Regression, Hypothesis Testing, Machine Learning, Optimization, Simulation
Data Management: Data Wrangling, ETL, Feature Engineering, Data Modeling, Data Warehousing

EXPERIENCE

Institutional Support and Operations Analyst

Liberty University, Office of Institutional Effectiveness and Research | Lynchburg, VA | Jul 2025-Present

- Collaborated with Analytics & Decision Support to design a LLM process for summarizing quarterly updates from departments on strategic plan initiatives, reducing reporting effort by ~25 hours per quarter.
- Created automated Python ETL workflows to generate the executive report on strategic plan initiatives, reducing reporting effort by ~25 hours per quarter.
- Developed and tuned an NLP model to extract themes from 3,700+ environmental scan survey responses, processing results in Excel to generate a finalized theme list for future scans.

Information Technology Intern

Summit County Juvenile Court | Akron, OH | Feb 2025-Jun 2025

- Used fuzzy matching in SQL and Excel to clean 114,000+ records and identify ~2,500 juvenile cases for regulatory reporting to the Ohio Bureau of Criminal Investigations (BCI).
- Built an Excel-based ETL tool and dashboard with validation logic to automate BCI case submissions.
- Collaborated with IT, HR, and Clerk’s offices to align workflows and ensure data mapping met BCI standards.

Graduate Teaching Assistant

University of Cincinnati, Lindner College of Business | Cincinnati, OH | Aug 2024-Dec 2024

- Led office hours and recitations for business analytics sections, explaining applied statistics, regression modeling, and optimization with Excel and Solver.
- Translated complex analytical methods into clear examples for diverse technical and non-technical audiences, supporting exam preparation, problem-solving, and decision-making.

EDUCATION

Master of Science, Business Analytics

University of Cincinnati, Lindner College of Business | Cincinnati, OH | Aug 2024-May 2025

- Completed four final projects selected by faculty as examples for future instruction.
- GPA: 4.00/4.00

Bachelor of Arts, Mathematics and Data Analytics

Malone University | Canton, OH | Aug 2020-May 2024

- Outstanding Senior in Mathematics & Data Analytics
- GPA: 3.99/4.00; Dean’s List (all semesters)

PROJECTS

Predicting Hotel Cancellations: Built interpretable models in R (logistic regression, classification trees) to predict booking cancellations, generating actionable insights for hotel operations.

University Course Timetabling: Optimized and automated Fall 2024 course scheduling for Malone University using a novel binary linear programming model in Excel with OpenSolver.

CincyInsights Dashboard Redesign: Collaborated with peers to redesign the City of Cincinnati’s live crash report dashboard in Tableau, adding filters and improved functionality aligned with best-practice design principles.