

AIDAN O'NEIL

Houston, TX - Terre Haute, IN

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EDUCATION

Rose-Hulman Institute of Technology

August 2022 – February 2026

Bachelor of Science in Mathematics and Data Science, Minor in Economics

Terre Haute, Indiana

- Relevant Coursework: Abstract Algebra, Database Systems, Linear Algebra, Artificial Intelligence, Data Mining
- Extracurriculars: Phi Gamma Delta Member, Shakespeare Club Treasurer

PROFESSIONAL EXPERIENCE

Booz Allen Hamilton

Jun. 2025 – Present

Summer Games Intern

Washington, D.C.

- Focusing on applying data science techniques to support public sector challenges.
- Engaging in collaborative projects and leveraging a technical skill set to deliver data-driven solutions.

Rose-Hulman Institute of Technology

Aug. 2022 – Present

AskRose Supervisor

Terre Haute, Indiana

- Provided on-demand STEM tutoring for K-12 students, maintaining a 100% positive feedback rating
- Developed tailored instructional approaches to address diverse learning styles and subject matter nuances
- Led a team of tutors to continuously improve service quality and expand subject coverage

Grader for the Math Department

- Evaluated and provide constructive feedback on Calculus and Linear Algebra assignments for 100+ students per semester
- Implemented a rubric-based grading system, improving consistency and reducing grading time
- Assisted professors in identifying common student misconceptions, contributing to curriculum refinement

O'Neil and Yuan Advisory

Apr. 2023 – Dec. 2024

Co-Founder and Director of Operations

Houston, TX

- Founded and led a data science consulting firm, delivering process optimization and data-driven solutions to SMBs
- Spearheaded projects resulting in significant efficiency improvements and cost savings for clients across diverse industries
- Developed and implemented custom data architecture solutions, leveraging cloud technologies to streamline operations

PROJECTS

Wholesale Distribution Forecasting & Pricing Analytics | AWS (S3, Lambda, SageMaker), pandas, Prophet

Jan. 2024 – Nov. 2024

- Architected and implemented an end-to-end inventory forecasting and pricing optimization solution for a major distributor
- Leveraged machine learning models (Prophet, GBRTs) to achieve 95% forecast accuracy
- Designed a serverless architecture using AWS services, ensuring scalability and cost-effectiveness

Meals on Wheels Data & Analytics Transformation | AWS (Glue, Lambda), pandas, Tableau

Feb. 2024 – Aug. 2024

- Led a comprehensive data and analytics overhaul for Meals on Wheels of Rockland County
- Designed and implemented an AWS-based data platform, consolidating disparate data sources and automating ETL processes
- Developed executive dashboards and financial models, providing actionable insights that optimize food production and delivery

Fraud Detection in Airbnb Listings | R, XGBoost

May 2023 - Aug. 2023

- Developed a fraud detection model using XGBoost, achieving 86% accuracy on a dataset of 100,000+ Airbnb listings
- Engineered features and conducted extensive data preprocessing to improve model performance
- Implemented cross-validation and hyperparameter tuning to optimize model robustness and generalizability

SKILLS

Programming Languages: Python, R, SQL, Java, HTML/CSS

Development Tools: AWS (S3, Lambda, SageMaker, Glue), Google Colab, Jupyter, Kubernetes

Libraries/Frameworks: XGBoost, Prophet, scikit-learn, PyTorch, pandas, NumPy

Data Visualization: Tableau, Matplotlib, Seaborn, Plotly

Database Management: SQL, MongoDB

Version Control: Git, GitHub

Foreign Languages: Mandarin Chinese (HSK 3.5)

Typesetting: L^AT_EX