

# 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: Shakespeare Club President, Phi Gamma Delta Member

## 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, Rust, R, SQL, Java

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

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

**Data Visualization:** Tableau, Matplotlib, Seaborn, Plotly

**Database Management:** SQL, MongoDB

**Foreign Languages:** Mandarin Chinese (HSK 3.5)

**Typesetting:**  $\LaTeX$