

JARED A. HAYES

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SUMMARY

Graduate student in Data Science at the University of Pittsburgh with B.S. degrees in Statistics and Data Sciences, interested in using data to improve public services in Pittsburgh. Experience verifying identity and handling sensitive records in a fraud-investigation role, building and evaluating statistical and machine learning models on health and large-scale data, and leading teams of up to 15. Student Data Consultant for a Pittsburgh-area nonprofit; competing in this year's DHS Local Government Case Competition.

EDUCATION

University of Pittsburgh, Pittsburgh, PA
Master of Science in Data Science

Expected December 2027

Pennsylvania State University, University Park, PA
Bachelor of Science in Statistics (Applied Statistics Option)
Bachelor of Science in Data Sciences (Statistical Modeling Data Sciences Option)
Minor in Mathematics

August 2025

TECHNICAL SKILLS

Programming & Databases: Python, R, SAS, MATLAB, SQL, MySQL, MongoDB (NoSQL)

Statistical Modeling: Regression Analysis, Hypothesis Testing, Stochastic Modeling, Computational Statistics, Bayesian Modeling

Machine & Deep Learning: Machine Learning, Neural Networks (U-Net, LSTM, Bayesian), PyTorch, TensorFlow, Scikit-learn

Data Analysis: Excel, Feature Engineering, Pandas, NumPy, Matplotlib, Google Earth Engine

DATA CONSULTING EXPERIENCE

IServe Pitt, Student Data Consultant

September 2026 – Present

- Consolidated 15 inconsistent spreadsheets (2015–2026) into one clean dataset in R, standardizing names, categories, and dates, and corrected calculation errors found through data validation
- Rebuilding a nonprofit's Excel order tracking with relational design and SUMIFS formulas to replace manual weekly tallies with self-updating reports, scoped with its executive director
- Building an Excel inventory dashboard and data-entry standards for a nonprofit's leadership team

PROFESSIONAL EXPERIENCE

TEKsystems (Contract at PNC), Pittsburgh, PA

June 2026 – August 2026

Detection and Investigative Analyst Lead

- Investigated suspected fraudulent account activity, handling ~20 inbound calls per day from branch bankers and customers, verifying identity and using case management and fraud-detection software to resolve or escalate cases

OTHER WORK EXPERIENCE

McDonald's, Pittsburgh, PA

February 2026 – April 2026

Department Manager

- Oversaw kitchen operations for a store averaging \$10,000 in daily sales by leading 15 crew members per shift

McDonald's, State College, PA

January 2022 – October 2022

Hourly Manager

- Received Assistant GM offer within 10 months of starting as crew member; won store-level 'Best Manager' (judged by GM) and placed 2nd regionally (judged by regional supervisor on shift-running ability)

ACADEMIC PROJECTS

Managing, Querying and Preserving Data Project, University of Pittsburgh

October 2026 – Present

- Designing a relational database for a 12,000+ record NHL draft dataset; completed the conceptual model and now developing the logical and physical models before building the database in SQL

Tools used: draw.io, SQL, MySQL (in progress)

Data Science Capstone – Team Leader, Pennsylvania State University

January 2025 – May 2025

- Led team of 4 developing wildfire prediction models for California using U-Net and LSTM on 500GB+ satellite data

Tools used: Python, TensorFlow, NumPy, Google Earth Engine

Applied Data Sciences Project, Pennsylvania State University

August 2024 – December 2024

- Built a Bayesian neural network to predict colectomy likelihood from 10,000+ records, outperforming deterministic models on edge cases

Tools used: Python, PyTorch, Pandas, NumPy, Scikit-learn