**Jonah Zembower**

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**education**

**Carnegie Mellon University, Heinz College,** Pittsburgh, PA August 2025 - May 2027

**Master of Science in Healthcare Analytics & Information Technology**

**Seton Hill University, School of Natural and Health Sciences,** Greensburg, PA August 2021 - May 2025

**Bachelor of Science**

* Major in Data Science - Computational Analysis (GPA 3.70)
* Major in Exercise Science - Health & Fitness (GPA 3.94)
* Overall GPA: 3.82/4.0, Magna Cum Laude

**skills**

Technology: Microsoft Office and Power Apps, Python, R, Visual Studio, BigQuery, PostgreSQL, Jupyter Notebook, Tableau, Looker Studio, Java, Noraxon, and HTML/CSS/JavaScript

Languages: Spanish (Intermediate), Italian (Elementary)

**work experience**

**Walmart ACC 7377,** Lebanon, PA June 2025 - August 2025

**Title: Operations Area Manager Intern**

* Lead engineering and operations teams to optimize label placement and printing process with a dashboard
* Introduced $6,000 worth of savings for implementation week compared to same week in 2024

**Peak Performance Biomechanics,** Slippery Rock, PA December 2024 - May 2025

**Title: Data Specialist Intern**

* Conducted a comprehensive analysis of biomechanical and ergonomic data leveraging Noraxon software
* Constructed reports leveraging insights from IMU and EMG data collection to highlight performance metrics

**relevant projects**

ECG Image Diagnostic Predictions: September 2025 - Present

* Creating a mobile application designed to empower users with ECG diagnostic analysis on a smartphone
* Using neural networks for arrythmia and heart rate prediction at a current accuracy of 70%

Urban Heat Island Prediction Model: January 2025 - May 2025

* Evaluated predictive factors influencing New York City's urban heat island effect, utilizing satellite data and planimetric data to develop a machine learning model
* Achieved 96% accuracy and ranked 86th out of over 2,000 competing teams in EY 2025 Data Science Challenge

Ergonomic Catheterization Laboratory Study: January 2025 - April 2025

* Collaborated with operators from Brigham and Women's Hospital in Boston, MA, to assess data collected through Noraxon IMUs and EMGs for operators wearing lead vest versus using rampart device
* Presented findings at SCAI 2025 Conference in Washington, DC

Time Series Analysis: April 2024 - May 2025

* Applied ARIMA modeling in Python to forecast trends in datasets like sunspots and electricity consumption
* Conducted data preprocessing, parameter tuning, and model evaluation to optimize predictions

**relevant coursework**

Undergraduate: Advanced Data Science, Database Management Systems, Machine Learning

Graduate: Database Management Policy Analytics, Health Systems, Data Focused Python

**extra curricular activities**

Soccer: captain in High School Varsity (2019-2020) and played University DII Men's Soccer (2021-2024)

Volunteered at food banks to better understand poverty in Westmoreland County (2023-2025)