

Steven Szachara

[GitHub](#) | [LinkedIn](#) | www.steven-szachara.com | U.S. Citizen | Rochester, NY

SUMMARY

M.S. Data Science Student with research experience at the Air Force Research Laboratory, proficient in programming, machine learning concepts and algorithms, with interest in the ethics of future AI systems

EDUCATION

M.S. Data Science | Rochester Institute of Technology August 2024 - Present
Golisano College of Computing and Information Sciences
GPA 3.94 Honors: PREP Scholarship and Previous Merit Financial Scholarship

B.S. Systems and Information Science | Syracuse University August 2014 - May 2018
College of Engineering and Computer Science
GPA: 3.4 Minor: Innovation, Design, and Start-Ups Honors: Cum Laude, Phanstiel Scholar

SKILLS SUMMARY

Languages: Python, Java, MySQL, NoSQL, R, PHP, MongoDB, HTML, CSS
Tools: Jupyter, Google Colab, VSCode, Tableau, R Studio
Packages: TensorFlow, Spark, Scikit-Learn, Folium, NLTK Sentiment - VADER, Transformers Pipeline
Concepts: Neural Networks, Machine Learning Modeling, Data Visualization and Presentation

PROJECTS

Hospital Readmission Prediction - Machine Learning Project [View Project Here](#)

- Analyzed healthcare data from 130 US hospitals, with over 50 features, to predict early patient readmissions in a highly imbalanced dataset, with over 100,000 entries and implemented Scikit-learn: **90% accuracy** for Class 0 (not readmitted) **AUC total score** of 63%, reflecting robust performance under imbalanced data condition.

BrickHack Hackathon - Global Corporate Project Tracking with Machine Learning [View Project Here](#)

- Designed algorithm for project management prioritization and visualization: Numeric priority score + (VADER + bert_pipeline)(on project notes) * (initialized 33% each)

Statistical Validity and Performance Metrics in Basketball: Jordan vs. James [View Project Here](#)

- Full statistical report on comparing the greatest basketball players of all time, Michael Jordan and LeBron James, in their 4 best seasons, cross validating all 8 match ups through statistical hypothesis and testing

WORK EXPERIENCE

Rochester Institute of Technology Rochester, NY | August 2025 - Present
Teaching Assistant ISCH 110 Principles of Computing

- Supporting Dr. Chris Bondy in RIT's foundational Python programming course by leading a weekly 2-hour lab, grading assignments, quizzes, and readings, holding study/work hours, and providing online assistance to students

Air Force Research Laboratory Washington, DC/Rome, NY | May 2025 - August 2025
AFRL Scholar - Trust and Influence Program

- Two part internship
 - Reported to the Director of the Trust and Influence Program to work with 45 different research projects around the country and internationally, preparing assets for the annual program review in early August, and led a 2-hour workshop during the Trust and Influence Program Review on "What's Next for Science?"
 - Primary research of novel theoretical algorithm to measure impact of past research projects, as quantifiable numeric score out of 100, with final step to be run as a predictive neural network, with 19 variables and weights

Creative Artists Agency Los Angeles, CA | 6 years | June 2017 - August 2023
Digital Media Analytics Executive

- Produced data-driven analysis of top entertainment clients across the agency, from internal data repositories, resulting in 2.7M total business from my individual projects, and separately 5M in collaborative projects

Cyber Security Department Intern

- Built active "HoneyPot" on internal company server using Splunk tool, report directly to CISO, and delivered 30 part interactive cyber security education tool company-wide during Cyber Security Month