

Tatum Beaugh

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Educational Background

Bachelor of Science, Angelo State University, expected graduation May 2026.

Major: Computer Science

Minor: Mathematics

Certification: Data science

GPA: 3.1/4.0

Work Experience

Student Assistant, August 2023 - September 2025

Porter Henderson Library, Angelo State University

- Help patrons find and check out books
- Answer the phones and organize lists online

Research

Critical Infrastructure Security, Angelo State University, San Angelo, TX, September 2025 - Present

- Utilized knowledge graphs to represent a waterbed management system.
- Employed explainable AI techniques to detect and classify anomalies.

The Data Mine, Purdue University, West Lafayette, IN, August 2024 - April 2025

- Collaborated with C-SPAN on analyzing congressional polarization.
- I utilized my knowledge in natural language processing, machine learning, neural networks, and data visualization to complete the project.
- Trained to use R, SQL, and Python in TDM 10100 to complete additional data science projects.

The Data Mine, Purdue University, West Lafayette, IN, August 2025 - Present

- Collaborated with the USDA Forest Service on utilizing geospatial data from Google Earth Engine to predict ecological factors in under-reported regions.
- I utilized my knowledge in database management, machine learning, data science, and data visualization to complete this project.
- Trained to use R, SQL, Bash, UNIX, and Python in TDM 20100 to complete additional data science projects.

Skills

Programming Experience: Experience in Python, C++, Java, Assembly, SQL and R

Technologies/Environment: MySQL, Unix, matplotlib, pandas, XGBoost, SHAP, Git/Github

Awards and Memberships

Angelo State Computer Science Club, Officer (January 2023 - December 2024), Member (August 2023 - Present)

2023 - 2024 Angelo State University Dean's list

References

Bryce Dietrich - Research mentor bjdieri@purdue.edu

Erdogan Dogdu- Computer science department chair at Angelo State University edogdu@angelo.edu

Margaret Alexander - Past employer margaret.alexander@angelo.edu