

# 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 [bjdietri@purdue.edu](mailto:bjdietri@purdue.edu)

Erdogan Dogdu- Computer science department chair at Angelo State University [edogdu@angelo.edu](mailto:edogdu@angelo.edu)

Margaret Alexander - Past employer [margaret.alexander@angelo.edu](mailto:margaret.alexander@angelo.edu)