

# Gage M. Weaver

Gage\_Weaver@ku.edu | (316) 833-2733 | LinkedIn: Gage-Weaver | GitHub: Gage-Weaver | Portfolio: gage-weaver.com

## EDUCATION

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### University of Kansas

Lawrence, Kansas

*Bachelor of Science in Computer Engineering*

*May 2026*

- **GPA/Awards:** 3.76 GPA, Spring & Fall 2023 Honor Roll, Garmin Excellence Scholar
- **Software Courses:** Programming 1 & 2, Software Engineering, Programming Paradigms, Embedded Systems
- **Computer/Electrical Courses:** Circuits 1&2, Electromagnetics, Electronic Circuits, Digital Logic Design
- **Coursework:** Active filter design and implementation (Circuits), Agile Project Manager (Software Engineering)

## RELEVANT EXPERIENCE

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### University of Kansas

Lawrence, Kansas

*EECS Supplemental Instructor*

*September 2024 – Current*

- Facilitated regular supplemental instruction sessions for EECS 202 (Circuits 1)
- Enhanced students' understanding through hands-on problem solving techniques.

### Adams Brown

Wichita, Kansas

*Information Technology & Data Analytics Intern*

*June 2024 – August 2024*

- Developed a key data analytics project utilizing DAX, Power BI, and SQL focused on company financials for an internal team, leading to being the first intern in the firm's history to be nominated for an Adams Brown One award.
- Designed and Implemented a key project focused on automating the onboarding process. The Powershell automation resulted in completely eliminating the need for manual email signature creation.

## PROJECTS (See Portfolio Website For Project Demos)

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### Mental Health Machine Learning Project

Kaggle Competition

*Machine Learning Developer*

*November 2024*

- Achieved 7th place in a Kaggle competition focused on mental health classification, with a total of 2,700 participants.
- Developed a high-performing CatBoost model, optimized using Optuna for hyperparameter tuning, and utilized a stratified k-fold cross validation process to gauge model performance.
- Analyzed and preprocessed the dataset, applying feature engineering techniques to improve model accuracy.

### PocketDJ

HACK KU 2024

*Developer*

*April 2024*

- Collaboratively developed PocketDJ, a web app and Adobe Express extension leveraging the HuggingFace API for sentiment analysis. Detected user mood through camera input or file upload and recommended Spotify songs based on emotion, with a preview function powered by the Spotify API.
- Technologies: Python, Javascript, Flask, HTML, CSS, Spotify API, HuggingFace API, Streamlit
- Awards: Most Creative Adobe Express Add-On

### NBA MVP Prediction Program

Personal Project

*Developer*

*April 2024*

- Developed a machine learning program in Python to predict NBA MVP winners. The model analyzes data from previous NBA seasons and their respective MVP voting share. Then breaks down this data and makes predictions using Ridge Regression and Random Forest Regression.
- Random Forest Regression model correctly predicted the 2024 NBA MVP Nikola Jokić
- Technologies: Python, Pandas, Scikit-Learn, BeautifulSoup, Machine Learning, Web-Scraping, Regression

## ACTIVITIES AND LEADERSHIP

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### University of Kansas esports

Lawrence, Kansas

*Team Captain*

*January 2023 – Current*

- Captain for the University of Kansas Rocket League team yellow for spring 2023. Scheduled scrimmages and optimized practice to best fit team availability. Alternate for team red fall 2023 - current

## SKILLS

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**Software:** Python, Javascript, HTML/CSS, C/C++, Flask, SQL, REST API's, Power BI, Powershell, DAX, Agile, Pandas

**Computer Engineering:** Circuit Analysis, PSPICE, Logic Design, VHDL, PCB Design, MATLAB, Embedded Systems