

Cameron Morgan

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Education

Duke University

Computer Science, Artificial Intelligence. Hack Duke Winner GPA 3.853

Relevant Coursework: Discrete Math for CS, Database Systems, Everything Data, Computer Systems, Data Structures and Algorithms, Runtime Complexity, Computer Architecture, Object-Oriented Programming, Software Engineering

Durham, NC

May 2026

Pennsville Memorial High School

National Honors Society, Golden Eagles Member, National Spanish Honors Society, State Placer Wrestling, National Art Honors Society, FBLA Member. GPA 4.0

Pennville, NJ

June 2022

Projects

GitHub (<https://github.com/cameronmorganDuke?tab=repositories>)

March Madness Model

- Led a research project using data from seven NCAA tournaments to identify key metrics predicting March Madness success, including offensive and defensive efficiency, adjusted tempo, and BARTHAG. Developed a K-Nearest Neighbors (KNN) model to evaluate prediction accuracy, achieving a 37% classification accuracy and revealing that certain factors like 2P%, 3P%, TORD, and DRB were less predictive of tournament outcomes.

Tractor Supply Product Locator

- This project is designed to search for products on the Tractor Supply website, retrieve detailed information including names, images, SKUs, and stock status, and display this information in a GUI window. The project involves web scraping using BeautifulSoup, formatting, and managing product attributes, fetching POG (Planogram) data from a CSV file, and displaying product details and related images through a user interface created with Tkinter.

Mock Website

- The project comprises a personal website with sections for career, accomplishments, and education, complemented by a shopping page where users can select and purchase haircut services. The site includes a functional shopping cart, and a checkout modal for order details, and integrates with EmailJS to process and submit purchase information.

From Scratch Neural Network

- Developed and implemented a neural network framework in Python, featuring custom classes for neurons and synapses with randomly initialized weights and biases. The model includes forward and backward propagation, ReLU activation, and an optimization routine for weight and bias updates through gradient descent.

Leadership & Activities

Duke Wrestling Team

Member/Coach

- I wrestled for Duke University during my freshman year. After sustaining a career-ending injury, I pivoted to a student-coaching role. I now use my CS background to help the team make optimal progress in the weight room.

Durham, NC

2022 – Present

Skills & Interests

Technical: Python (Fluent), C++ (Fluent), Java (Fluent), JavaScript (Fluent), HTML (Fluent), CSS (Fluent), SQL (Familiar), Assembly (Familiar)

Interests: Machine Learning, Artificial Intelligence, Weight Lifting, Sports, Cooking