


# Braeden Turner

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## Education

### University of Massachusetts—Amherst

Expected May 2027

*Bachelor of Science in Computer Science (GPA: 3.94/4.00)*

*Amherst, MA*

- **Relevant Coursework:** Linear Algebra, Object-Oriented Programming, Data Structures, Discrete Mathematics
- **Recognition:** Honor's College, Dean's List, Max Chancellor's Scholarship (\$16,000 per year)

### Lewis-Palmer High School

Graduated May 2024

*Valedictorian, 1530 SAT (GPA: 4.545/4.00)*

*Monument, CO*

## Experience

### Zesty Thai

Nov 2022 – Aug 2024

*Food runner, food packer, cook, busser, and dishwasher*

*Colorado Springs, CO*

- Optimized efficiency by managing and packaging over **50+** to-go and **25+** dine-in orders nightly, maximizing output in a high-pressure environment.
- Collaborated with a diverse staff to streamline communication under stress, ensuring order accuracy and reflecting optimal teamwork skills.
- Averaged **10hrs/week** during school and **20hrs/week** during summer.

### BombBomb

May 2023 – Sep 2023

*iOS Developer Intern*

*Remote*

- Collaborated with a senior iOS developer to enhance front-end design using SwiftUI, improving user interface consistency.
- Gained foundational experience in app development, preparing me for larger-scale data-driven applications.

## Projects

### Blackjack Card Counter | Python, YOLOv8, OpenCV, Flask, HTML/CSS

- Designed web application leveraging OBS/computer vision that provides live blackjack card counting.
- Trained YOLOv8 CV model on **10,000+** labeled card images, achieved **99%** precision score.
- Implemented dictionary requiring **10+** consecutive card detections, ensuring accurate input for card-counting algorithm.

### UHelp | Python, OpenCV, Flask, HTML/CSS (HackUMass Event)

- Designed and deployed an NLP-powered web application utilizing Cohere LLM to provide tailored UMass mental health resources from user queries.
- Web scraped and chunked over **4,000** UMass-related pages, then utilized vector embedding for accurate resource matching.
- Provided relevant resources by comparing vector-embedded queries to **15** most similar web scraped vectors.
- Integrated text extraction from images, applying same vector-embedding strategy to enhance user accessibility.

### Suicidal Ideation Classifier | Python, NumPy, Pandas, Scikit-Learn

- Developed a NLP bag-of-words model to predict and alert suicide risk deriving from social media posts.
- Tokenized, labeled, and data-cleaned **9,000+** Reddit posts; achieved **93%** precision score.

## Technical Skills

**Programming Languages:** Python, Java, C, Javascript, HTML/CSS, Swift

**Libraries/Frameworks:** Pandas, NumPy, OpenCV, Flask, React, SwiftUI