

# Alexa Yockey

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## EDUCATION

**The Ohio State University**

**Columbus, OH**

*B.S. in Computer Science Engineering (Honors)*

*May 2026*

*B.S. in Physics*

*Dean's List*

*GPA: 3.95/4.00*

Relevant Coursework:

- Data Structures & Algorithms, Software Components, Software Development, Computer Ethics
- Calculus (Differential, Integral, Multivariable), Differential Equations, Linear Algebra, Statistics

## PROJECTS

**News Feed Sentiment Analyzer - Java Web Application**

- Developed and implemented a Java program that seamlessly converts dynamic RSS news feeds into an HTML table showcasing key article details
- Incorporated Natural Language Processing (NLP) to analyze each news story's sentiment by parsing the text of each article

**Augmented Reality Target Shooting Game - iOS App**

- Developed an engaging AR shooting game using ARKit and SceneKit in XCode
- Features dynamic physics-based interactions, three challenging levels with different target speeds, five power-ups, scoring, a timer, and high-score tracking

**Maze Game with Custom Maze Generation - HTML/CSS/JavaScript Website**

- Developed a maze game website which showcases customizable maze size & difficulty, an efficient real-time maze generation algorithm, adaptive interfacing, and a multiplayer variant

**Mastermind Game (Team Project) - MATLAB Application**

- Collaborated with four classmates to program Mastermind for a software game development competition
- Demonstrated leadership, effective communication, and mentoring by guiding team members with limited coding experience, coordinating the team's efforts, ensuring clear task delegation, and fostering an open exchange of ideas

## TECHNICAL SKILLS

### Programming Languages

- Java                - Javascript  
- Swift             - HTML/CSS  
- Python           - React

### Skills

- Web & Mobile Development  
- Project Management & Collaboration  
- Data Analysis

## ACCOMPLISHMENTS & AWARDS

**Valedictorian of Jackson High School, May 2022** (Ranked 1st out of 500 students)

**National Merit Finalist, March 2022** (Top 1% out of 1.5 million)

**AP Computer Science Exam Perfect Score, October 2021** (Top 0.48% out of 75,000)

**Perfect 36 ACT Score, December 2019** (Top 0.31% out of 1.3 million)

## INVOLVEMENT & LEADERSHIP

**Tutoring (Volunteer and Freelance), August 2020 - Present**

- Provided individualized tutoring in subjects like Physics, Calculus, and Organic Chemistry

**Society of Physics Students Member, August 2022 - Present**

**Intramural Volleyball Team Member, August 2023 - Present**