ALEXA YOCKEY

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EDUCATION

The Ohio State University   Columbus, OH
B.S. in Computer Science Engineering & B.S. in Physics   May 2026
GPA: 3.95/4.00

Relevant Coursework: Data Structures and Algorithms, Software Components, Software Development, Calculus (Differential, Integral, Multivariable), Differential Equations, Linear Algebra, Statistics

PROJECTS

News Feed Sentiment Analyzer - *Java Web Application*
● Developed a dynamic news feed website via a networking API, which parses an RSS file for key article details and presents them in a sortable table
● Incorporated Natural Language Processing by analyzing the sentiment of each article
● Enhanced website performance by implementing parallel processing and real-time updates

Augmented Reality Target Shooting Game - *iOS App*
● Developed an Augmented Reality 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 multiplayer maze game website that showcases an efficient, original maze generation algorithm with customizable maze size & difficulty

"Hexagon" Game - *iOS App*
● Created an engaging iOS strategy game where players compete against an AI opponent, strategically placing tiles on a hexagonal board to dominate adjacent regions

Mastermind Game (Team Project) - *MATLAB Application*
● Led a team of four to program the board game Mastermind for a software game competition
● Demonstrated leadership and effective communication

SKILLS

Programming Languages - Java, HTML/CSS/JavaScript, Swift, Python, MATLAB
Technical Skills - Web Development, Mobile Development, Git, Debugging, VS Code, Eclipse
Soft Skills - Critical Thinking, Collaboration, Problem-Solving, Communication, Adaptability

ACCOMPLISHMENTS

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)

WORK EXPERIENCE

Cashier at Culver's (June 2023 – August 2023), **Host at Outback Steakhouse** (June 2022 – August 2022)