

Aiden Carrera

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SUMMARY

Prospective OSU Honors College CS graduate with experience in C++, Java, Python, and web development. Skilled in software engineering, audio programming, and collaboration, recognized for reliability and initiative.

EDUCATION

Oklahoma State University, Honors College, Stillwater, OK GPA: **3.9**
B.S. in Computer Science, Expected December 2026
Coursework: Data Structures, Operating Systems, Software Engineering, Artificial Intelligence
President's Honor Roll: Fall 2023, Spring 2024, Fall 2024
Academic Excellence Scholarship — OSU Academic Excellence Supplemental Award

PROJECTS

Fitness Tracker Web App [GitHub](#)

Developing a fitness tracking app with Razor Pages and C#, integrating external APIs, implementing user authentication, and providing data visualization dashboards in a 5-person agile team.

C++ Audio EQ Plugin [GitHub](#)

Built a real-time 3-band audio equalizer in C++ using the JUCE framework. Implemented DSP algorithms, multi-threaded processing, and a responsive UI for parameter control.

Solfege Piano Web App [GitHub](#)

Created a browser-based piano with Next.js, React, and Howler.js, featuring Solfege Mode for real-time note playback to help users practice melodic patterns interactively.

AI Learning Website [GitHub](#)

Developed a Quizlet-style web app using Next.js and React with AI-generated flashcards, including a library with progress tracking and interactive study modes.

Java Game Engine [GitHub](#)

Developed a custom game engine in Java as a Maven project, implementing object-oriented architecture, game logic, and JSON-based data handling for saving and loading.

EXPERIENCE

Organist, Good Shepherd Lutheran Church June 2023 – Present

– Provide live music weekly and coordinate with other musicians to deliver performances.

SUAB / OSU Jazz Band / Release Radar 2024 – Present

- Helped organize and execute SUAB campus events with 100+ student participants.
- Drum set player in OSU Jazz Band, performing in ensemble concerts and events.
- Facilitate and coordinate musician jam sessions for Release Radar events

Cavaliers Drum and Bugle Corps (2024) / Resistance Indoor Percussion 2022 – Present

- Keyboardist Cavaliers: toured nationwide with a top-tier drum corps, performing at major competitions.
- Keyboardist Resistance: perform in a high-level competitive ensemble.

Front of House, Hideaway Pizza, Bixby, OK July 2021 – Aug 2023

- Mentored new team members and developed leadership and communication skills.

SKILLS

Technical	C++, Java, Python, JavaScript/TypeScript, React, Tailwind, JUCE, Audio Production
Professional	Communication, Leadership, Teamwork, Problem Solving, Time Management, Reliability