

Aiden Carrera

 AidenCarrera |  aiden-carrera |  aiden.carrera05@gmail.com |  (918) 991-0591

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