

John Wesley Thompson

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Proactive software engineer and computer science graduate engaged in developing scalable and maintainable software. Skilled at learning new technologies and applying them to solve real-world problems, with experience building full-stack web applications, automation tools, and interactive applications. Seeking an opportunity to contribute technical expertise while continuing to grow as a developer.

Education

B.S. in Computer Science, Middle Tennessee State University
GPA: 3.60

2022 — 2026
Murfreesboro, TN

Technologies and Languages

Languages:

C++, C, JavaScript, Python, HTML, CSS

Tools:

Node.js, Linux, Git, Docker, Vim

Project Work

Falling Block Game | C++, C, Ncurses, Miniaudio

- Designed and implemented core gameplay systems including block rotation, collision detection, line clearing, score calculation, level progression, and randomized piece generation
- Implemented an audio system for background music and event-driven sound effects by utilizing the miniaudio library

Pointillism Renderer | JavaScript, WebGL2, GLSL, HTML, CSS

- Developed a browser-based pointillism renderer that converts images into interactive particle-based artwork using custom WebGL2 and GLSL shader programs
- Implemented GPU-based particle simulation with GLSL shaders, transform feedback, and ping-pong buffers to achieve real-time mouse interaction

Japanese Flashcard Creator | Python, OpenAI API, Google Text-to-Speech

- Streamlined the creation of Anki cards designed for language acquisition, resulting in over a 90% time reduction compared to manual entry
- Implemented a custom SQLite database and leveraged the gTTS and OpenAI APIs to compile example sentences, audio, and accurate definitions

Relevant Experience

Computer Science Tutor

Computer Science Department

Jan, 2025 — Aug, 2025

Middle Tennessee State University

Murfreesboro, TN

- Improved coding confidence and academic performance of over 10 students by reinforcing their understanding of core programming concepts
- Tutored topics including OOP, software architecture, data structures, and algorithms

Vice President

Competitive Coding Club

Aug, 2025 — May, 2026

Middle Tennessee State University

Murfreesboro, TN

- Co-founded and fostered a club of over 30 members by hosting community events
- Reinforced application of over 20 algorithms and data structures using resources like LeetCode

AI Team Lead

MTSU Hackathon 2025

Feb, 2025

Middle Tennessee State University

Murfreesboro, TN

- Collaborated with a team of 5 developers to design a unique AI model for a game opponent inspired by common AI implementations