Aidan Carr

Robbinsville, NJ 08691 • (609) 495-7445 • aidancarr717@gmail.com • aidancarr1.github.io

EDUCATION

Marist University   **Poughkeepsie, NY**
Bachelor of Science in Computer Science, Minor in Mathematics   August 2021 – May 2025
- **GPA:** 3.9 / 4.0; Summa Cum Laude
- **Relevant Coursework:** Compiler Design, Operating Systems, Algorithms & Data Structures, Computer Organization & Architecture, Project Management, Database Management
- **Honors:** Alpha Chi National Honor Society, 8x Dean's List

PROJECTS

Scattegories Game Clone   July 2025 – Present
- Coding a Node.js multiplayer game while learning Express, Socket.io, and server setup with Copilot.

Compiler and Operating System   September 2024 – May 2025
- Crafted a compiler in 3k+ lines of TypeScript that receives high-level code, and outputs 6502-instruction programs with a custom Lexer, Parser, Semantic Analyzer, and Code Generator.
- Developed an operating system in 3.5k+ lines of TypeScript with a Command Shell, round-robin CPU to run multiple 6502-instruction programs, interrupts, memory, disk capability, and user file system.
- Integrated the compiler and OS into a complete toolchain where compiled programs run smoothly in the custom environment; both projects featured in the course's Hall of Fame for innovation.

Volunteer Matching Website, Capstone Project   September 2024 – December 2025
- Launched a community service website using JavaScript/Node JS with a group of students.
- Programmed a login page, event editor, event viewer, profile page, and search functions using HTTP asynchronous posting, REST API, and SQL queries sent to a PostgreSQL database.

PROFESSIONAL EXPERIENCE

Marist University Academic Learning Center   **Poughkeepsie, NY**
Tutor   September 2022 – May 2025
- Provided exceptional tutoring to 25+ students in Python programming, Calculus, Discrete Mathematics, and Statistics through one-on-one meetings and weekly drop-in sessions.
- Reinforced professors' lessons while matching the students' primary learning modality.

Aqua NJ   **Hamilton, NJ**
Seasonal Laborer   June 2024 – August 2024
- Refurbished 100 fire hydrants in high-heat, improved visibility and safety standard compliance.
- Operated a company pickup truck, maintained outdoor service areas, and assisted in site tasks.
- Performed accurate data entry and record-keeping in Excel for monthly water well documentation.

LEADERSHIP & VOLUNTEERING

Marist Club Ultimate Frisbee   **Poughkeepsie, NY**
Team Captain   September 2024 – May 2025
- Successfully led a college-level club sports team of 40 active players through an inclusive culture.
- Ran 4 weekly practices, recruited 15 new members, taught fundamentals, fostered team spirit.

Mercer County Library   **Robbinsville, NJ**
Summer Reading Volunteer   June 2017 – August 2020
- Interacted with 200+ young readers, helped log reading hours, handed out weekly prizes.
- Assisted in craft exercises, reshelved media, helped patrons in printing and general computer usage.

SKILLS, TOOLS & INTERESTS

Languages: Fluent in Python, C++, Java, TypeScript, JavaScript, SQL, HTML
Frameworks and Software: Node JS, PostgreSQL, Visual Studio Code, GitHub, ChatGPT, Copilot
Interests: Web Design, Movies/Film Production, Robotics, Travel, Hiking