

# Aidan Carr

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## EDUCATION

### Marist University

*Bachelor of Science in Computer Science, Minor in Mathematics*

**Poughkeepsie, NY**

August 2021 – May 2025

- **GPA:** 3.90 / 4.0; Summa Cum Laude
- **Relevant Coursework:** Compiler Design, Operating Systems, Algorithms & Data Structures, Internetworking, Intro to Cybersecurity, Project Management, Database Management, Computer Organization & Architecture
- **Honors:** Alpha Chi National Honor Society, 8x Dean's List

## PROJECTS

### Scategories 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 web-based 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 full-stack 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 relational database.
- Collaborated with organizations and practiced SDLC; researched requirements, built user stories, and tested.

### Algorithm and Data Structure Programs

September 2023 – December 2023

- Constructed various data structures like trees, linked lists, and hash tables using C++.
- Designed unique solutions to tasks using sorting, SSSP, searching, and greedy algorithms.
- Explained and documented in-depth each algorithm and data structure implementation using LaTeX.

### SQL Amusement Park Database Project

November 2022 – December 2022

- Designed a custom amusement park database using SQL to store customers, employees, coasters, restaurants, and interactions between people and places in 14 unique tables.
- Documented ER Diagram, table description, table syntax, justification of third normal form, and ten queries.

## PROFESSIONAL EXPERIENCE

### Walgreens

**East Windsor, NJ**

*Customer Service Associate*

June 2025 – Present

- Provide efficient, customer-focused checkout service and helped customers locate products or work the computer, applying clear communication and problem-solving skills in a busy retail environment.
- Maintain accurately priced shelves by restocking items and updating aisles.

### Marist University Academic Learning Center

**Poughkeepsie, NY**

*Tutor*

September 2022 – May 2025

- Provided exceptional tutoring to 25+ students in Python & Java programming, Calculus, Discrete Mathematics, and Statistics through one-on-one meetings and weekly drop-in sessions.
- Explained concepts to those with limited technical skills, reinforcing lessons while matching learning style.

## LEADERSHIP

### Marist University 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.

## SKILLS, TOOLS & INTERESTS

**Languages:** Python, C++, Java, TypeScript, JavaScript, SQL, HTML, JSON

**Frameworks and Software:** Node JS, PostgreSQL, VS Code, GitHub, ChatGPT, Windows, Cisco Packet Tracer, MySQL

**Interests:** Web Design, Movies/Film Production, Robotics, Travel, Hiking