Aidan Carr

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Education

Marist University; *Poughkeepsie, NY* **Aug. 2021 - May 2025**
Bachelor of Science, Computer Science — GPA 3.889/4.0
Concentration in Software Development, Minor in Mathematics

Dublin City University; *Dublin, Ireland* **Jan. 2024 - May 2024**
Semester Study Abroad

Field Experience

Tutor, Marist University; *Poughkeepsie, NY* **Sept. 2022 - Present**
- Teaching Python programming, Calculus, Discrete Mathematics, and Statistics to struggling students.
- Reinforcing professors' lessons and matching the students' primary learning modality.

TypeScript Operating System; *Operating Systems* **Sept. 2024 - Dec. 2024**
- Developed an OS in TypeScript with a command shell, round-robin CPU to run multiple 6502-instruction programs, Kernel interrupts, Memory, an MMU, and a Disk with swap file capability and a user file system.
- Innovated the project by implementing extra shell features like text class; featured in the course's Hall of Fame.

Volunteer Matching Website; *Capstone Project* **Sept. 2024 - Dec. 2024**
- Launched a community service website using Node JS with a group of other students.
- Programmed a login page, event editor, event viewer, profile page, and search functions using JavaScript, EJS, HTTP asynchronous posting, RESTful API, and parameterized queries sent to a PostgreSQL database.

Personal Blog Website; *Dublin, Ireland* **Jan. 2024 - Feb. 2024**
- Published a blog website for my family using HTML and JSON files, outputting blog posts on GitHub pages.
- Configured elements with JavaScript like photo captions, music widgets, fun facts, and accessibility features.

Algorithm and Data Structure Programs; *Algorithm Design* **Sept. 2023 - Dec. 2023**
- Constructed various data structures like trees, linked lists, and hash tables using C++ to solve problems.
- 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.

6502 Assembler; *Computer Organization & Architecture* **Oct. 2023 - Dec. 2023**
- Built a virtual 6502 processor in TypeScript using Node JS to compile and execute assembly instructions.

Database Website Project; *Software Development II* **Nov. 2022 - Dec. 2022**
- Developed a lost and found website and database with PHP and MySQL to store reported lost or found items, a UI to report and claim items, and an admin page with login credentials to manage items in the database.

Additional Experience

Ultimate Frisbee Captain, Marist University; *Poughkeepsie, NY* **Aug. 2024 - Present**
- Successfully leading a team of over 40 players, planning and running four practices a week.
- Building an inclusive environment, teaching the fundamentals of the game, and improving frisbee skills.

Field Operations Associate, Aqua NJ; *Hamilton, NJ* **June 2024 - Aug. 2024**
- Assisted in field maintenance, Excel data entry, and daily operations for a water company. Painted 100 hydrants.

Sales Associate, ASICS Outlet; *Jackson, NJ* **June 2023 - Aug. 2023**
- Engaged with customers, recommended shoes based on their needs, and restocked the store.

Team Member, Six Flags Great Adventure; *Jackson, NJ* **June 2021 - Aug. 2022**
- Communicated with customers, operated a register, resolved issues, and cleaned the workspace.

Languages
TypeScript, JavaScript, HTML, CSS, Python, C++, Java, SQL, PHP, CSS, LaTeX, EJS

Software
Microsoft Office Suite, Node JS, Visual Studio Code, Oracle, Cisco Packet Tracer, GitHub Desktop, Google Docs & Sheets

Honors and Awards

- Dean's List; Fall 2021 - Fall 2024
- Presidential Scholarship; Fall 2021 - Spring 2025