

Education

Marist University; *Poughkeepsie, NY*

Bachelor of Science in Computer Science

Concentration in Software Development, Minor in Mathematics

Aug. 2021 - May 2025

GPA 3.902/4.0

Dublin City University; *Dublin, Ireland*

Semester Study Abroad

Jan. 2024 - May 2024

Relevant Experience

Tutor, Marist University; *Poughkeepsie, NY*

Sept. 2022 - May 2025

- Taught Python programming, Calculus, Discrete Mathematics, and Statistics to struggling students.
- Reinforced professors' lessons and matching the students' primary learning modality.

TypeScript Compiler; *Compiler Design*

Jan. 2024 - May 2024

- Crafted a [compiler](#) in TypeScript that receives high-level code, and outputs 6502-instruction programs.
- Coded a lexer, parser, semantic analyzer, and code generator; featured in the course's [Hall of Fame](#).

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 students.
- Programmed a login page, event editor, event viewer, profile page, and search functions using JavaScript, EJS, HTTP asynchronous posting, REST 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.

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 - May 2025

- Successfully led a team of over 40 players, planned and ran four practices a week for two semesters.

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, C++, Python,
Java, SQL, CSS, PHP, LaTeX, EJS

Software

ChatGPT, Microsoft Office Suite, Node JS, PostgreSQL, GitHub,
Visual Studio Code, Oracle, MySQL, Google Docs & Sheets

Honors and Awards

- Alpha Chi National Honor Society; Spring 2025
- Summa Cum Laude; Dean's List; Fall 2021 - Spring 2025