

Nunzio D'Amelio

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Education

The College of New Jersey

B.S. Computer Science | Minor Math & Physics

GPA: 3.5/4.0

Sept. 2021 - Current

Expected Graduation: 2025

Professional Experience

WorkWell Partnership - Software Engineer

Aug. - Dec. 2024

- Developed and published a job listing page for their application, for students to easily see new opportunities. Used Ruby and Ruby on Rails.
- Engineered BFF services, optimizing data flow between front-end and back-end systems/APIs.
- 10+ issues resolved on their programs github involving data flow and common bugs

TCNJ - Computer Science Student

Sept. 2021 - Current

- Developing a real world application for a client involving a huge psql database with years of data along with Node.js for the frontend aspect.
- Creating a virtual personal computer along with all of its parts which followed mano's basic computer architecture that was able to run instructions filled in its RAM
- Using python to develop AI to successfully navigate retro games following different algorithms

Free Lance Computer Science Peer Mentor

Sept. 2021 - Current

- Provided guidance to CS students, teaching foundational and complex skills to all students
- Youtube channel to teach complex data structures and to navigate different LeetCode problems

Technical Skills

Languages: C, C++, Python, Java, JavaScript, HTML, CSS, SQL, MATLAB, R

Frameworks/Libraries: React, Node.js, Express.js, Tailwind CSS

Tools: Git, GitHub, VS Code, PostgreSQL, MongoDB, RESTful APIs,

Concepts: Full Stack Development, Foundational Machine Learning, Agile Methodologies, Data Structures, Algorithms, Dynamic Programming, Professional Git Flow

Projects

AI Tutor

- Developed a full stack website for a developer to learn and reinforce their algorithmic problem-solving skills using Node.js, JavaScript, express, and OpenAI API. Supports GPT-4o and Fine-Tuned Models.
- Uses the problem sets directly from LeetCode and allows the users for quizzes, hints, and solutions.

High-Level Interpreter

- Created a C based interpreter that handled everything down to the bytes in memory to the code flowing through the CPU.
- Focuses on being fast with a compiler that translates to efficient bytecode representation which is then executed.
- Language able to use dynamic arrays, hash tables, garbage collectors, and more all in C.

Personal Website

- My own personal website to display my projects, resume, and more.
- Developed using React.js and Tailwind.css