Duncan Lynch

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EDUCATION

Stevens Institute of Technology   Aug 2023 – May 2026 | Hoboken, New Jersey

Bachelor of Science in Computer Science

GPA: 3.4

Relevant Coursework:

Data Structures and Algorithms, Advanced Algorithm Impl. and Design, Web Programming, Linear Algebra, Statistics II, Discrete Mathematics, Computer Architecture, Systems Programming, Database Management, Operating Systems

Awards:

Dean's List, Edwin A. Stevens Scholarship, Presidential Achievement Scholarship

Obra D. Tompkins Highschool   Aug 2020 – May 2023 | Katy, Texas

Highschool Diploma

PROFESSIONAL EXPERIENCE

Undergraduate Research Assistant   Nov 2024 – Present | Hoboken, New Jersey

Stevens Institute of Technology Human Computer Interface Lab

- Partnered with a team to train a Large Language Model designed to provide evidence-based suggestions for therapists.
- Designed an application using Figma for annotating large datasets and generating codebooks, streamlining the labeling process to ensure high-quality data for training.
- Developed the app using Next.js and React for frontend and browser local storage for storing the user data.

Instructor   Sep 2024 – Jan 2025 | Jersey City, New Jersey

Code Advantage LLC

- Taught between 6 to 10 children aged 6-12 the fundamentals of Computer Science through Microsoft Makecode and JavaScript.
- Reinforced Object-Oriented concepts through JavaScript, laying the groundwork for advanced coding skills.
- Adapted lesson plans on the spot to target the education needs of the students.

PROJECTS

Classy2   Dec 2024 – Present

Classy2 is actively used in university servers with over 1000 members.

- Developed a Discord bot in Python through the py-cord API, allowing users to look up classes, search keywords, and save classes in a wishlist.
- Designed a redundant data management system with a SQLite database for the long-term storage of user information while implementing a Map data structure for faster access of class data.
- Built a web scraper to search through each class page on the Stevens academic catalog website and parse the HTML using BeautifulSoup to store it in a database.

BumbyBot   Aug 2024 – Sep 2024

A Discord bot bringing the functionalities of Rust+ into Discord.

- Developed a Python project that interacts with the game Rust using the discord.py and the rustplus.py API mimicking and expanding on the game's companion app with real-time data synchronization between the game and Discord.
- Designed a redundant data management system with an error-handling framework to address runtime issues, to ensure a seamless user experience.

SKILLS

Programming Languages

Python, R, Java, C++, C, HTML, CSS, JavaScript, SQL, ARM, OCaml

Programming Skills

APIs, Git, React, Next.js, Node.js, BeautifulSoup, MySQL, MongoDB, PostgresSQL, Linux