Nolan Nguyen

Second-year computer science major and business minor with experience using **Python**. Interested in exploring user and media technology. Seeking a hands-on internship experience. Open to both front-end and back-end software development.
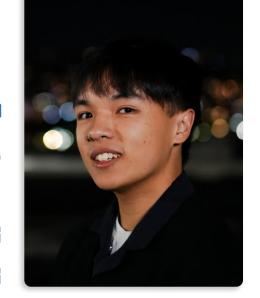
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Education

B.S. Computer Science - Graduating 5/2026
August 2022 - Present

Loyola Marymount University

- Minor in Business Administration
- Cumulative GPA: 3.98
- Dean's List: All semesters(Fall 2022, Spring 2023, Fall 2023)

Activities & Projects

Constraint Satisfaction Algorithm
December 2023

Project Assignment

- Implemented **recursive backtracking** in statically-typed **Python** supplemented by arc and node consistency methods to schedule series of meetings with a predetermined list of constraints.
- Investigated and implemented a more efficient approach using local search and **simulated annealing.**

Git Gud 2023
October 2023

Programming Competition

- Participated in LMU's Association for Computing Machinery's(ACM) annual programming competition.
- Worked in a team of four to solve a diverse set of coding problems using a language of choice(Python).
- Solved 14 of 15 problems within the time limit, and finished 2nd out of 6 teams at the event.

Optimal Maze Pathfinding
September 2023

Project Assignment

- Implemented **A* graph search** in statically-typed **Python** to navigate sets of non-uniform cost mazes and return the most optimal(lowest-cost) solution of actions.
- Developed an accompanying heuristic to analyze the future of a possible move and prioritize more promising moves before others.

Work Experience

Computer Science Teaching Assistant
August 2023 - Present

Loyola Marymount University

- Responsible for tutoring and guiding students through programming assignments for LMU's introductory programming class during open lab hours.
- Focused on teaching the fundamentals of programming via Python.

Videographer
February 2023 - Present

The Los Angeles Loyolan

- Produced video content for Loyola Marymount University's student-run digital publication, serving local communities.
- Reported on university breaking news and informational features.
- Oversaw a group of video interns and managed team deadlines; created and reviewed video projects from conception to publishing, through multiple rounds of iterative development and quality control.
- Created a video feature piece on a beloved campus worker's salary concerns that resulted in the official hiring of the worker by the university.

Skills & Competencies

- Python
- HTML & CSS
- Digital Media Project Management
- Written Communication

Classes

Completed

- Data Structures and Applications
- Algorithms and Analysis
- Computer Systems Organization
- Discrete Math for Computer Science

In Progress

- Computer Graphics
- Mobile Application Development

Interests

- User Interface / User Experience
- Interactive Technology
- Visual Design
- Videography

Tools

VS Code | Google Colab | Github

Final Cut Pro | Ableton Live | Slack

Google Workspace | Clip Studio Paint

Microsoft Suite | Adobe Lightroom

Camayak | Youtube Studio

Awards / Honors

Scouts BSA - Eagle Scout

LMU Arrupe 4-Year Scholarship

Los Angeles Loyolan Merit Scholarship

Alameda High School - Digital Film Senior Award