

Mitchell Cootauco

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EDUCATION

Loyola Marymount University | *Los Angeles, CA*

M.S. - Computer Science

May 2025

B.S. - Computer Science | Minor in Interactive, Gaming, and Immersive Media

May 2024

- **Relevant Coursework:** Data Structures, Algorithms, Machine Learning, Cybersecurity, Networks, Mobile Application Development, Web Application Development, Computer Systems Organization, Computer Graphics, Discrete Mathematics, Probability and Statistics, Logic and Computer Design, Discrete Mathematics, Linear Algebra

TECHNICAL PROJECTS

Marketplace Web App | *Full Stack*

December 2023

- Designed a marketplace web app applying **Google Firebase** and **React**, giving users a better online shopping experience
- Utilized the **Google Maps Geocoding API**, displaying the product's location through a Google Maps widget for the buyer

Live Sign Language Recognition | *Back-End*

December 2023

- Created a live ALS recognition program using **Python** and **Mediapipe**, providing users with an accessible and responsive platform for learning sign language
- Implemented **machine learning** techniques, delivering precise and real-time responses based on hand signs captured

Blendify - Web Application | *Full Stack*

August 2023

- Developed a dynamic music interface using **React** and implemented **OAuth** authentication for secure Spotify API sign-in.
- Designed robust search and filter functions to handle custom music metrics such as BPM, key, artist, and genre, ensuring the delivery of relevant results.

Custom Programming Language | *Back-End*

May 2023

- Led a team of 3 software engineers to create a **JavaScript**-based custom programming language inspired by 'Among Us,' showcasing strong leadership and technical skills

LMU Hacks Winner - Interactive Web App Winner | *Full Stack*

April 2023

- Participated in a hackathon focused on the United Nations' 17 Sustainable Development Goals with a team of 3, achieving 1st place in general computer science
- Developed a web application inspired by the game "Cookie Clicker," employing **Google Firebase** and **Python website scraping** techniques, delivering users instant gratification through seamless donations to the Team Trees website

WORK EXPERIENCE

Algorithms Teacher Assistant | *Loyola Marymount University*

August 2023 - Present

- Enabled understanding of **Python** algorithmic concepts in CMSI2130 course for 75 students through 1-1 tutoring, facilitating enhanced academic success
- Exemplified communication and interpersonal skills, resulting in enhanced comprehension

Software Engineer Researcher | *Loyola Marymount University*

May 2023 - June 2023

- Designed a web app using **React** and the eBird API, improving their online experience and access to avian knowledge
- Resolved API connectivity issues by rectifying the API key discrepancy, ensuring uninterrupted data flow and functionality

SKILLS & TECHNICAL TOOLS

Languages: Java, Python, HTML, CSS, Javascript, C, C#, C++, Swift, TypeScript

Technologies: Git, Google Firebase, React.js, Node, R, MediaPipe, Unity