Mitchell T. Cootauco

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EDUCATION

Loyola Marymount University | *Los Angeles, CA*
M.S. - Computer Science GPA 3.85 **May 2025**
B.S. - Computer Science | Minor in Interactive, Gaming, and Immersive Media; GPA 3.42 **May 2024**
Relevant Coursework: Data Structures, Algorithms, Machine Learning, Mobile Application Development, Web Application Development, Cybersecurity, Logic and Computer Design, Linear Algebra, Software Architecture, Databases
Campus Activities: Men's Club Volleyball, League of Legends Team, Crimson Consultant Group

WORK EXPERIENCE

Director of Engineering - Crimson Consultant Group | *Los Angeles, CA* **February 2024 - Present**
- Spearheaded a client project for a multi-billion-dollar short-term rental company by directing product development teams to curate an application programming interface for 23,000 monthly active homeowner stakeholders
- Created an improved web application utilizing Vue and Google Firebase to store and display information seamlessly
- Managed a GitHub repository for a 10-member development team, overseeing commits and approving merge/pull requests

Software Engineer Intern - Valley Veterinary Hospital | *San Gabriel, CA* **May 2024 - August 2024**
- Developed an Android app with Google Sheets API and React Native Expo, optimizing client onboarding by reducing manual data entry time by 10%, eliminating errors from illegible handwriting, and improving overall accuracy and efficiency
- Implemented a cloud-based backend service using AWS Elastic Beanstalk, generating 35 new API calls per week to Google Sheets by providing a Node.js-supported environment, securing data management, and ensuring reliable interactions

Algorithms Teaching Assistant | *Loyola Marymount University* **August 2023 - May 2024**
- Enabled understanding of Python algorithmic concepts for 75 students through 1-1 tutoring, facilitating academic success
- Assessed homework projects, providing detailed feedback to students to improve their understanding of algorithmic concepts
- Identified professors' needs with various workloads through meetings reducing their work by 3 hours a week

Software Engineer Researcher | *Loyola Marymount University* **May 2023 - June 2023**
- Designed a web app using React and the eBird API, improving online experience and access to avian knowledge
- Resolved API connectivity issues by rectifying the API key discrepancy, ensuring uninterrupted data flow and functionality
- Composed a responsive layout that adapts to various devices, enhancing accessibility and user engagement

TECHNICAL PROJECTS

OfferOasis - Marketplace Web App | *Full Stack* **December 2023**
- Coded a marketplace web app applying Google Firebase and React, enhancing the online shopping journey for users utilizing the Google Maps Geocoding API for product location visualization through a widget, improving user interaction
- Designed a user account validation, enabling a delete button for post creators, improving content management and security
- Accomplished the design and execution of a user interface with React, achieving user engagement across various devices

Live Sign Language Recognition | *Back-End* **December 2023**
- Established Mediapipe with Python to track hand gestures in real time, enabling dynamic ASL sign recognition
- Optimized machine learning models to interpret sign language with high accuracy, facilitating effective communication
- Conducted user testing to gather feedback, driving continuous improvement of the sign language recognition program

Blendify - Music Web App | *Full Stack* **August 2023**
- Initiated Spotify API and created algorithms for music recommendations, helping song discovery based on user preferences
- Formulated a dynamic music interface using React and implemented OAuth authentication for secure sign-in
- Conceived search and filter functions to handle music metrics such as BPM, key, artist, and genre, ensuring relevant results

LMU Hacks Winner - Interactive Web App | *Full Stack* **April 2023**
- Participated in a hackathon focused on the United Nations' 17 Sustainable Development Goals, achieving 1st place
- Developed a "Cookie Clicker"-inspired web app using Google Firebase for user authentication and real-time data handling
- Implemented Python website scraping with Beautiful Soup to aid donations to Team Trees, enhancing user gratification

ADDITIONAL INFORMATION

Languages: Java, Python, HTML, CSS, Javascript, TypeScript, C, C#, C++, Swift, R, SQL
Technologies: Git, AWS, Firebase, React, Node, Unity, PyTorch, Beautiful Soup, MongoDB, PostgreSQL
Interests: Volleyball, Anime, Gym, Cooking, Coffee Making, Story Games, Superheroes