

Mitchell T. Cootauco

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EDUCATION

Loyola Marymount University | Los Angeles, CA

M.S. - Computer Science GPA 3.9

May 2025

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

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, Deep Learning

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 - May 2025

- 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 Agile team, overseeing commits and approving merge/pull requests

Software Engineer Intern - NextFoundArtist | Remote

January 2025 - May 2025

- Established CRUD operations using Python, FastAPI, and SQL, optimizing data management and backend performance
- Enhanced the user dashboard utilizing React, Next.js, and TypeScript, ensuring a dynamic and responsive user interface
- Containerized 15 FastAPI endpoints with Docker and deployed via AWS SAM to AWS Lambda, cutting release time by **88%**

Full Stack Software Engineer - HHQueen | Remote

February 2025 - April 2025

- Optimized database schema with Prisma, improving data management for user profiles, venues, and menu images
- Deployed a Next.js web app using React and TypeScript, facilitating B2B login and auto-fill search for venue access requests
- Designed API functions, including a business-owner notification system, ensuring the archiving of outdated venues

Software Engineer Intern - Valley Veterinary Hospital | San Gabriel, CA

May 2024 - August 2024

- Developed an automated client registration system using React Native Expo and Supabase that reduced new client entry time by 10% and removed data-entry errors, allowing veterinary technicians to spend more time assisting clients and pets
- Integrated a Chrome extension to auto-populate new client information into veterinary management software, which streamlined workflow and minimized manual data handling, increasing the number of new clients every month
- Deployed a Next.js web app displaying real-time client data, enabling vet technicians to view and copy registrations

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

Women-Owned Small Business Data Analysis | Data Science Competition

March 2024

- Processed **50,000+** EPA records using Excel, Python, and R, cleaning data and selecting key features for analysis
- Developed a linear regression model in R, achieving an R-squared of 0.82, identifying key factors impacting contract awards
- Created data visualizations with Python (Matplotlib & Seaborn) to highlight funding trends, improving stakeholder insights

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

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 Firebase for user authentication and real-time data handling
- Implemented Python website scraping with BeautifulSoup 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.js, Docker, PyTorch, BeautifulSoup, MongoDB, PostgreSQL, Fast API, Prisma