

Anthony Chen

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Education

University of California, Los Angeles (UCLA)

Expected June 2025

B.S. in Computer Science

- **GPA:** 3.8 / 4.0
- **Relevant Coursework:** Software Construction, Computer Architecture and Organization, Data Structures & Algorithms, Algorithms and Complexity, Discrete Structures, Operating System

Experience

Software Engineering Intern

June 2023 - Present

Lawrence Ellison Institute of Transformative Medicine

Los Angeles, CA

- Engineered an internal tool using Python to automate upload of 500+ patient medical records using REDCapCloud's REST API
- Established an audit log to monitor and record data upload statuses and generated backups to preserve previous data versions
- Developed robust unit tests using pytest to validate code functionality, ensure software reliability and minimize potential errors

Lead Software Developer

June 2022 - August 2022

BruinLabs

Los Angeles, CA

- Led team of 3 to prototype a food delivery service app; assisted PM in market research and forming business model
- Utilized Geoapify API for geolocation and place autocomplete; integrated Google Maps API for user navigation
- Processed and verified 100% of user payments using Stripe API and backend API ran through Firebase Cloud Functions

Web Developer

February 2022 - June 2022

UCLA Anderson School of Management Marketing & Communication

Los Angeles, CA

- Performed global-styling repairs and code maintenance using HTML/CSS, SASS, and JavaScript
- Managed event website for the Riordan Programs Anniversary with responsive web design principles to increase accessibility
- Incorporated Agile development methodology and used Jira Workflow to organize and track project tasks

Projects

Bruin Racing | SMV EV Special Project

September 2022 - April 2023

- Designed a dynamic vehicle dashboard to store and view real-time driving data using React, Redux, and Firebase
- Leveraged Google Maps API to create a heatmap, providing location-based insights to help optimize vehicle design
- Employed Chart.js to generate insightful line graphs, allowing engineers to discern trends and patterns within data over time

Hitchhiker | LA hacks

April 2022 - June 2022

- Led team of 4 developers to develop a travel advising app using TypeScript, Next.js, and Firebase
- Combined OpenAI's chatGPT API with advanced prompt engineering techniques to generate personalized travel plans for users
- Spearheaded frontend development, designed UI/UX in Figma and implemented the designs into dynamic web pages

Bruin Study

April 2022 - June 2022

- Directed team of 5 to build a web application using PERN stack to help UCLA students find study partners
- Defined and tested own RESTful APIs using Express/Node.js and used Axios for sending HTTP requests
- Orchestrated and deployed a PostgreSQL database schema and architecture to Heroku
- Collaborated with 3 Frontend Developers and optimized main user interface rendering speed by an estimated 80%

Spotify Clone

June 2022 - July 2022

- Replicated Spotify user Interface with Next.js and TailwindCSS, utilizing Recoil for effective global state management
- Integrated music playing functionalities by connecting to active devices through Spotify Web API
- Constructed user login/authentication system with OAuth 2.0 protocol using NextAuth

Unhinged Matchmaker

February 2022 - March 2022

- Designed and built a Radix Tree data structure using C++ to store user data in an efficient manner
- Created matching algorithm to generate compatible matches by filtering through 100,000+ user profiles

Skills

Technologies: JavaScript/TypeScript, Python, C++, C, HTML/CSS, SASS, React, React Native, Next.js, Recoil, Redux, Express/Node.js, Bootstrap, TailwindCSS, Selenium, Git, AWS, Docker SQL, Firebase, MongoDB, PostgreSQL