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

System Integration 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 to RedCapCloud
- Created a business analytics app with OCI APEX and SQL, integrated with Okta for seamless role-based application access
- Developed robust unit testing scripts to ensure accuracy of patient data uploads, minimizing errors and upholding data integrity

Dev Lead   *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 autocompletion; integrated Google Maps API for user navigation
- Processed and verified 100% of user payments using Stripe API and backend ran through Firebase Cloud Functions
- Created global user pairing system and displayed dynamic interfaces and functionalities based on user profiles

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 and followed 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
- Integrated Google Maps API to create a heatmap, providing location-based insights for driving data
- Employed Chart.js to generate insightful line graphs, allowing users to discern trends and patterns within data over time

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
- Co-implemented 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
- Implemented user login/authentication system with OAuth 2.0 protocol using NextAuth

Unhinged Matchmaker   *February 2022 - March 2022*

- Designed and implemented a Radix Tree data structure using C++ to efficiently store user data
- Created matching algorithm to generate compatible matches by filtering through 100,000+ user profiles

Skills

Languages: JavaScript/TypeScript, Python, C++, C, HTML/CSS, SASS

Technologies: React, React Native, Next.js, Recoil, Redux, Express/Node.js, Bootstrap, TailwindCSS, Selenium, Git, AWS, Docker

Database: SQL, Firebase, MongoDB, PostgreSQL