Anthony Chen

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Education

University of California, Los Angeles (UCLA)   *Expected June 2025*
B.S. in Computer Science
- **GPA:** 3.865 / 4.0
- **Relevant Coursework:** Software Construction, Computer Architecture and Organization, Data Structures & Algorithms, Algorithms and Complexity, Discrete Structures, Operating System, Machine Learning, Theory of Computing

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

Engineering 96 Instructor – Autonomous Rover   *Sept 2023 - Present*
UCLA Samueli School of Engineering   Los Angeles, CA
- Instructed students in designing and programming autonomous rovers to navigate an obstacle course and secure objects
- Presented lectures on essential concepts including SolidWorks, C++, Arduino programming, and circuiting/wiring

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 autocompletion; 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 2023*
- 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 implemented and deployed a PostgreSQL database 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

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, Oracle, PyTorch