Anthony Chen

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🎓 Education

B.S. in Computer Science   09/2021 – 06/2025 | Los Angeles, California
University of California, Los Angeles (UCLA)
- GPA: 3.8 / 4.0
- Relevant Coursework: Software Construction, Computer Architecture and Organization, Data Structures & Algorithms, Algorithms and Complexity, Discrete Structures, Operating System, Computer Graphics, Programming Languages, Theory of Computing, Machine Learning, Artificial Intelligence, Natural Language Processing, Computer Vision

M.S. in Technology Innovation   09/2025 – 04/2027 | Seattle, Washington
University of Washington - Global Innovation Exchange

💼 Professional Experience

Ellison Institute of Technology   06/2023 – 09/2024 | Los Angeles, California
Software Engineering Intern
- Replaced command-line tools with a Next.js dashboard built using TypeScript, Recoil, and NextUI, enabling researchers to process cell images via server-side computer vision models, resulting in 100% increase in model usage
- Designed a scalable database schema and implemented the app architecture for a project lifecycle tracking tool, enabling the monitoring of 60+ research projects and new proposals, with support for custom approval workflows and future scalability
- Automated the upload of 500+ patient medical records using Python and REDCapCloud's REST API, reducing manual work and ensuring data integrity with automated testing, audit logs, and backups

UCLA Samueli School of Engineering   09/2023 – present | Los Angeles, California
Engineering 1 Instructor – Autonomous Rover
- 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

UCLA Anderson School of Management Marketing & Communication   02/2022 – 06/2022 | Los Angeles, California
Web Developer
- 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

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📁 Projects

Autocreator
- Collaborated as part of a 3-developer team to create a full-stack web application designed to streamline social media content generation and scheduling, improving workflow efficiency for users
- Built responsive and secure frontend interfaces using Next.js, Recoil, and Radix UI, ensuring seamless user experience and integration with NextAuth for robust authentication and authorization
- Architected a scalable microservices backend with Express/Node.js and containerized Python workers using AWS Lambda, SQS, and S3 to manage asynchronous content generation efficiently

LeoFitness - Backend | UCLA Creative Labs
- Architected RESTful APIs to enable CRUD operations for a workout plans and activities tracking app built with React Native, MongoDB, Express/Node.js
- Developed and deployed MongoDB database and backend Express/Node.js server infrastructure on AWS Elastic Beanstalk
- Automated API documentation using SwaggerUI, streamlining collaboration between teams for efficient testing and integration

Bruin Racing | SMV EV Special Project
- 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

Bruin Study
- 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%

🧠 Skills

Javascript | TypeScript | Python | C++ | C | HTML | CSS | SASS | React | React Native | Next.js | Recoil |
Redux | Express/Node.js | Tailwind | Git | AWS | Docker | Firebase | MongoDB | PostgreSQL | Oracle | PyTorch