

# Andrew Zhang

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## EDUCATION

UNIVERSITY OF CALIFORNIA, LOS ANGELES

Los Angeles, CA

Bachelor of Science, Computer Science

Expected Graduation June 2025

GPA: 3.7

Dean's List

September 2021 - Ongoing

Relevant Coursework:

Computer Science & Mathematics

- **CS180:** Algorithms and Complexity, **CS M151B:** Computer Systems Architecture, **CS131:** Programming Languages, **CS181:** Formal Languages and Automata Theory, **CS174A:** Computer Graphics, **CS35L:** Software Construction, **M51A:** Logic Design of Digital Systems
- **Math115A:** Linear Algebra, **Math134:** Systems of Differential Equation, **Math131A:** Real Analysis, **Math132:** Complex Analysis, **C&EE110:** Statistics and Probability for Engineers

## WORK EXPERIENCE

UCLA Research Center

Los Angeles, CA

Student Researcher

November 2021 - Ongoing

- Research and implement deep learning: Convolutional Neural Network in order to process images.
- Preprocessing and normalization of image dataset to be used for training and test sets.
- Optimize the CNN model for improved autonomous navigation accuracy and delivery efficiency.

## LEADERSHIP EXPERIENCE

BruinLabs

Los Angeles, CA

Lead Software Developer

June 2021 - September 2022

- Create and design prototype app + website for the startup's outline using HTML/CSS, JS, Swift, and Objective C.
- Experience with git version control to improve current designs/features in a team working environment.
- Address complex technical challenges, troubleshoot issues, and implement strategic solutions to meet objectives.

CodeChampion

Irvine, CA

Co-Founder

June 2019 - September 2021

- Educate young learners on competitive programming, teaching workshops biweekly in C++, Java, or Python.
- Coordinate and maintain organization's operations, creating work-friendly environment for educator and student.

Labdoo

Irvine, CA

Lead Volunteer

September 2017 - November 2022

- Lead members to repair damaged laptops: IT troubleshooting, hardware repair/replacement, software fixes.
- Sort all objects into online database and automate process of updating status of each object through system of online form requests which require admin review to finalize update of object.
- Improved website UI/UX, improving site visits by 2.5x, laptop donations by 1.9x, 2x global reach of Labdoo.

## EXTRACURRICULAR ACTIVITIES

ACM Hack

Los Angeles, CA

Member

September 2020 - Ongoing

- Expand my computer science knowledge through various workshops on JS, HTML, React, CSS, MongoDB.

Self Projects

- Portfolio Website: interactive portfolio of myself, implemented using HTML/CSS, hosted on custom domain.
- Ranked Wordle: Practical 1v1 Wordle game with ranking system. Use of HTML and CSS to visually enhance the website. Analyze networking protocols and implement server-side player syncing and user-side game rendering.
- Date matchmaking program: Uses efficient time complexity algorithms to find matching members in big database.
- Mini Mario video game: create a small-scale version of super Mario with object-oriented programming. Implemented efficient interactions throughout the game with polymorphism and use of virtual functions.

## ADDITIONAL INFORMATION

LinkedIn: <https://linkedin.com/in/zhangandrew2>

Github: <https://github.com/zhangandrew2>

Skills: C/C++, Java, Python, HTML/CSS, Javascript, Node.js, React.js, MongoDB, Chinese(Fluent), problem-solving