

# Pinran (Jason) Cheng

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## Education

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University of California, Los Angeles

Sept. 2021 – June 2025

- Bachelor of Science in Computer Science
- 4.0 cumulative GPA
- Coursework: data structures, algorithms, operating systems, software construction, computer graphics, linear algebra
- Clubs: CS honor society Upsilon Pi Epsilon officer, ACM Rustaceans

## Experience

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Daily Bruin Bruinwalk Senior Staff

Oct. 2021 – Present

- Redesigned the homepage and professor pages using Django/Javascript/CSS on [bruinwalk.com](http://bruinwalk.com), a professor rating site used by over 18k UCLA students, for a more modern appearance and drastically reduced code size
- Collaborated with UI/UX designer to standardize colors by usage to support switching color palettes
- Created a Perl script that uses the Euclidean color distance algorithm to automatically replace colors across many files

Wind River Intern VxWorks Platforms

June 2022 – Sept. 2022

- Wrote test procedures in C for the VxWorks kernel message queue component to achieve airborne systems certification
- Implemented table-driven programming and achieved 100% MC/DC coverage for all functions

Major League Hacks Open Source Fellow

Jan. 2022 – Apr. 2022

- Designed unit tests to verify the reliability of Facebook's Android native debugger
- Refactored the debug\_bridge Python module to reduce boilerplate and increase code clarity

## Projects

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TRAINER React Native mobile exercise assistant to count workout reps

- Trained the TensorFlow OpenPose AI model and used it to classify the camera image
- CincyHacks 2021 "Most Popular" winner (out of 17 teams)

## Awards

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- 2020 American Invitational Mathematics Examination top 15%
- USA Computing Olympiad Silver Division

## Skills

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- Programming languages: C, C++, Rust, Java, Perl, Python, JavaScript, Bash, TI-BASIC, HTML, CSS
- Tools/frameworks: Git, Linux, Django, React, Docker, LaTeX
- Languages: English, Mandarin Chinese