Pinran (Jason) Cheng

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Education

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

Daily Bruin Bruinwalk Senior Staff Oct. 2021 – Present

- Redesigned the homepage and professor pages using Django/Javascript/CSS on bruinwalk.com, a professor rating site used by over 18k UCLA students, for a more modern appearance and significantly more simplified/maintainable code
- Collaborated with UI/UX designer to standardize colors by usage to support switching color palettes for accessibility
- 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

- Developed test procedures in C for the VxWorks kernel message queue component to achieve aerospace certification
- Implemented table-driven programming in the test procedures and achieved 100% MC/DC coverage for all functions
- Wrote comprehensive documentation explaining environment installation, Cert workflow, and troubleshooting tips for onboarding future Cert developers

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

TRAINER React Native 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)

Rust Toy Project Command line utility for counting lines of text

- Demonstrates several high-level concepts of this modern language: memory safety, multithreading, and traits
- Uses the `clap` crate to declaratively and concisely parse command line arguments
- Achieves over 12 times faster performance by parallelizing file counters

Awards

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

Skills

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