HAOJI WANG

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EDUCATION

University of California, Los Angeles   Graduating Year: 2026
Mathematics of Computation Pre−Major, Dean's List, **GPA: 3.9**
- Relevant coursework: CS32 Data Structures, CS35L Software Construction, MATH 61 Discrete Math

SKILLS

Technical Skills: C++, C, Python, HTML, CSS, React
Languages: English (Native); Chinese (Native)

HONORS AND AWARDS

Euclid Mathematics Contest Certificate of Distinction (Top 30 international)   2021
Singapore National Olympiad in Informatics Silver medal (33rd in Singapore)   2019
Singapore Mathematical Olympiad Gold medal (18th in Singapore)   2018

Quill & Scroll ASDAN Journalism Contest Profile Writing 1st Place   2021
NSDA China Guangzhou Regional Championship 3rd Place & Outstanding Speaker   2019

EXPERIENCE

Bruin Spacecraft Satellite Project, UCLA   Feb 2023 − Present
Propulsion Team Member
- Debugged and maintained the C code that runs the ion thruster for UCLA's satellite project, communicating between the Power Processing Unit (PPU) and the Digital Control Interface Unit (DCIU).
- Collaborated on a complex engineering project to develop and maintain software, gaining experience in version control, code review, testing, and hardware−software integration.

Student Media Group, UCLA   Feb 2023 − Present
DevOps Team Member
- Developed a user−friendly inventory management web application with the team, allowing efficient equipment tracking.
- Utilized React to develop the front−end code of the web app, applying the website's styling through CSS and HTML.
- Implemented key features such as real−time inventory tracking and automated email notifications for equipment check−outs, resulting in a more streamlined and efficient checkout process for media group members.

RELEVANT PROJECTS

PeachParty Game   Feb 2023
- Created a two−player world in board game style where players control avatars, collect coins and stars, and avoid baddies.
- Developed various C++ classes to manage the various interactions, creating a complex and dynamic gameplay experience.
- Github link: https://github.com/onehodge/PeachParty

Movie Recommender   Mar 2023
- Developed a movie recommender in C++ that provides personalized recommendations to up to 100K users among 20K movies in the database, based on the user's movie watching history and the attributes of movies such as actors and genres.
- Utilized data structures such as binary search trees, vectors, and maps to efficiently store and identify candidate movies.
- Github link: https://github.com/onehodge/MovieRecs

LEADERSHIP EXPERIENCE

"SJI Want to Help", *Initiator and campaigner*   Apr 2020 − Jan 2021
- Raised $5,000 to help school support staff who lost their income during COVID lockdown.
- Collaborated with a mask factory to design and produce school−branded masks as the fundraiser for the campaign.
- Promoted the campaign through various mediums, including published articles, public speeches, and marketing videos.

SJI Math Club, *President*   Mar 2020 − May 2021
- Delivered engaging workshops to club members and the broader school community, including math riddles, magic tricks, game theory, and graphing calculator tips.
- Introduced a tutor system to the club to encourage members to help their peers study and improve their math skills
- Demonstrated leadership and marketing skills that led to a significant increase in membership from 10 to 72 in a year.