

Julie Hong

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EDUCATION

University of California San Diego | San Diego, CA

B.S. in Computer Science | GPA: 4.0/4.0

Sep 2023 - Mar 2026

- **Relevant Courses:** Design and Analysis of Algorithms, Software Engineering, Principles of Computer Operating Systems, Artificial Intelligence, Machine Learning, Computer Networks

Diablo Valley College | Pleasant Hill, CA

A.S. in Computer Science | GPA: 4.0/4.0

Jan 2020 - Jun 2023

- **Relevant Courses:** Advanced Programming with C and C++, Programming with Java, Assembly Language Programming/Computer Organization

TECHNICAL SKILLS

Programming Languages: C++, C, Java, Python, HTML, CSS, JavaScript

Operating Systems: macOS, Linux

RELEVANT EXPERIENCE

Research Assistant, Avocado Computer Vision Project | UC San Diego

Aug 2024 - Present

- Contributed to improving avocado tree detection in images using YOLOv8 for precision agriculture applications.
- Relabeled ~600 images and prepared the dataset in a YOLO-compatible format, including data cleaning and directory structuring.
- Trained and evaluated YOLOv8 models with various configurations to optimize recall and precision.

PROJECTS

Calendar Application | Coursework

Jan 2024 - Mar 2024

- Developed a calendar application for journaling as part of the Software Engineering course.
- Designed the user interface using Figma and implemented features with HTML, CSS, and JavaScript.
- Collaborated with a team of 12 and was selected as the team MVP by peers.
- Achieved recognition as the best project by the TA in all three evaluations and was named the best team at the end of the quarter.

Operating Systems Project (Nachos) | Coursework

Sep 2024 - Dec 2024

- Added functionality to the Nachos operating system, including system calls and basic file system operations.
- Enhanced support for multiprogramming and tested features thoroughly using custom test programs.

Router Development Project | Coursework

Sep 2024 - Dec 2024

- Enhanced a basic router to support ARP handling, ICMP messaging, and efficient packet forwarding with static routing.
- Implemented routing algorithms using the longest prefix match for accurate and reliable packet delivery.

LEADERSHIP EXPERIENCE

Marketing Director | Competitive Programming Club at UC San Diego

Jun 2024 - Present

- Manage social media accounts by designing a logo, creating posters, and crafting posts to promote weekly meetings, special events, and student participation in competitions.