

# Nishant Sharma

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## EDUCATION

### University of California, San Diego

*Bachelor of Science in Computer Science*

San Diego, CA

Sep. 2024 – June 2028

### Delhi Public School

*Highschool Diploma*

Navi Mumbai, Maharashtra

Apr 2023 – June 2024

## EXPERIENCE

### Orientation Leader

*University of California San Diego*

Apr 2025 – Present

*San Diego, CA*

- Engaged groups of 10-15 first year and transfer students to address concerns about the transitions to college
- Facilitated complex dialogue, both virtually and in person, with sensitive and vulnerable identity spaces for incoming students to provide students with a sense of community and connection with others
- Collaborate with fellow orientation leaders and supervisors to implement college's orientation goals

### Peer Mentor for Global Ambassadors Program

*University of California San Diego*

June 2025 – Present

*San Diego, CA*

- Guided 2 incoming international students to smoothen their transition to UC San Diego's college life and California culture and enhance their sense of belonging at the college
- Assisted students by introducing them to campus resources that will assist in their academic, personal and professional success at UC San Diego
- Encouraged students to develop intercultural communication skills and foster global understanding in your community

## PROJECTS

### Mini Shell Implementation | *C, Unix/Linux, GNU Make, GDB, Valgrind*

Apr 2025 – Jun 2025

- \* Developed a custom Unix shell in **700 lines of C**, supporting **15+** built-in/external commands, I/O redirection, piping, and background execution.
- \* Integrated Valgrind and Makefile debug targets, reducing memory leaks to **0bytes** across **50+** automated test cases.

### Java Data Structures Library | *Java 17, Generics, JUnit 5*

Jan 2025 – Mar 2025

- \* Implemented **8+** core data structures—ArrayList, LinkedList, Stack, Queue, HashMap, Heap, Priority Queue, BST—from scratch in Java using generics and interfaces.
- \* Achieved **100% correctness** on a **200+**-case Gradescope autograder; unit-tested with JUnit 5 and custom edge-case suites.

## SKILLS

**Programming Languages:** Java, Python, C, JavaScript, HTML/CSS

**Tools and Technologies:** GDB, Valgrind, Makefiles, Git, Unix/Linux CLI, Vim

**Concepts:** Data Structures, Algorithms, Memory Management, Object-Oriented Design, Runtime Analysis, Systems Programming

**Soft skills:** Communication, Leadership, Team work, Collaboration