

# Himani Jha

🌐 himanijha.com

🏠 San Jose, CA

✉ himanijha12@gmail.com

🐦 @himanijha

## Skills & Tools

- C++, Java, C, CUDA, MATLAB, front-end development (TypeScript, JavaScript), Swift, Python, C#, git, UNIX command line, npm, Xcode, Unity, React, AWS EC2/S3/Lambda

## Education

University of California, Los Angeles

Sep 2024 – Jun 2028

- Bachelor of Science, Computer Science
- *Dean's Honors*, Henry Samueli School of Engineering and Applied Science

GPA: 3.9

## Experience

Software Engineer Intern @ Pure Storage

Jun 2025 – Sep 2025

- Designed a kernel-bypass data path for a block storage driver supporting major AI hyperscaler, improving performance under high-throughput workloads
- Replaced asynchronous io\_uring interface with a user-space zero-copy shared memory (shm) API in C++, reducing I/O overhead and increasing throughput by 60%
- Drove architectural decisions for low-latency, high efficiency transfer through performance benchmarking and tradeoff analysis (latency vs. throughput)

Research Intern @ UCLA Integrated Bioelectronics Lab

Jan 2025 – Jun 2025

- Migrated a production TypeScript-based dashboard from Chakra UI to Tailwind CSS, improving styling consistency, and maintainability across the frontend codebase
- Refactored component architecture to support modular, reusable UI patterns ensuring type safety, compatibility, and minimal regression risk during integration

Developer Lead @ Nova Tech for Good

Sep 2024 – *Present*

- Led teams of 5-6 developers to design and ship full-stack applications for 3 nonprofits
- Guided project scoping, task prioritization, and architecture decisions

## Projects

Mending Kids Inventory Management System

*Ongoing*

- Led a team of developers to build a full-stack inventory platform managing 10K+ medical supplies, replacing manual spreadsheets and reducing inventory lookup and update time by ~70%

SaveCantonese Volunteer Roster Automation

GitHub

- Built a data pipeline processing Zoom/Slack logs across 300+ volunteers, cutting manual tracking effort by ~80%

Alzheimer's San Diego Volunteer Management System

Private GitHub

- Built a full-stack volunteer management platform using Next.js and Supabase, tracking 36,000+ volunteer hours
- Designed and implemented core features including hour logging, data aggregation, and real-time dashboards, reducing manual tracking effort by ~70%

BinBot

GitHub

- Developed an iOS app in Swift (SwiftUI, UIKit, Core ML) to classify waste using a custom Create ML model achieving 95% accuracy across multiple trash categories and reducing user decision time by 60%

## Awards & Honors

1st Place QWER Hacks

Feb 2024

- Top 2% of hackers; built an anonymous peer support hotline with AI message matching, voice morphing and accessible hardware integration. Awarded Most Accessible and Most Innovative track prizes (GitHub)

NCWIT Aspirations in Computing National Honorable Mention

Jan 2024

- Recognized in 10% of national applicants for academic achievements and tech community contributions

Apple Swift Student Challenge Winner

Jun 2022

- Created an interactive AR piano tutorial in Swift Playgrounds using RealityKit to teach beginners piano