

# Sacaar Jain

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## EDUCATION

**University of California, Los Angeles (UCLA)**

**Los Angeles, CA | Graduating June 2025**

B.S. in Computer Science

GPA: 3.78/4.0

*Relevant Coursework:* Data Structures and Algorithms, Computer Networks Fundamentals, Operating Systems Principles, Data Management Systems, Software Construction

## WORK EXPERIENCE

**Full-Stack Intern | XCare (Lake Forest, CA)**

**6/2022 – Present**

- Utilized low code app building options to create a baseline application showcasing necessary organization and UI of potential future mobile application
- Collaborated with software engineers to develop backend infrastructure creating an MVP in Node.js and Express, while also improving frontend design in React Native under a MERN stack framework
- Conducted bug testing on iOS and Android platforms to assist development of application and ensure quality of MVP before presentation

**Undergraduate Researcher | Elegant Mind Club Lab (Los Angeles, CA)**

**3/2023 – 6/2023**

- Focused on improving object-detection models through real-time 3D depth perception by synchronizing drones with stereoscopic first-person view systems
- Built an experimental pipeline utilizing live video stream feed from a Tello drone into Vive VR headsets on Unity VR, ODLIC software written in Python to detect objects, and a Raspberry Pi to compile data collected from motion detection cameras and the VR headset on user movements
- Yielded valuable insights into the benefits of future research and development by enhancing video quality, heightening situational awareness, and optimizing real-time ODLIC processes

## TECHNICAL PROJECTS

**QED-AI (Quod Erat Demonstrandum-AI) | (QED GitHub)**

**4/2023 – 4/2023**

- Developed a website using React, MathPix API, and ChatGPT API to devise an application allowing students to verify any math proof by inputting text and/or images of math work

**MyCourse Website | (MyCourse GitHub)**

**9/2022 – 12/2022**

- Utilized a MERN stack framework to build a website simplifying UCLA's planner system using UCLA's APIs, combining the functionality of multiple websites for selecting classes

**Dynamic Dating App Simulation**

**1/2022 – 3/2022**

- Programmed a C++ dating app simulation by implementing a Radix Tree and efficient algorithms to manage and query stored data effectively

## VOLUNTEER EXPERIENCE

**Volunteer Lead | Little Tokyo Service Center (Los Angeles, CA)**

**9/2022 – 12/2022**

- Engaged with the Little Tokyo Service Center's Los Angeles afterschool program to provide mental, physical, and academic support in areas of STEM and the arts to underprivileged children

**Co-Founder | COVID-19 Senior Assistance Initiative (Lake Forest, CA)**

**4/2020 – 6/2021**

- Spearheaded a volunteer shopping service to deliver \$5000 worth of groceries via a functional website and phone service to seniors in Saddleback Valley and Corona during COVID pandemic

## SKILLS

**Programming:** C++, JAVA, React, Node.js/Express, Python, HTML, CSS

**Technical:** MongoDB, DynamoDB, Adalo, Unity VR, Arduino, Raspberry Pi, Adobe Lightroom, SolidWorks

**Operating Systems:** Windows, Linux Ubuntu, Linux, MacOS

## INTERESTS

**Hobbies:** Photography, Tennis, Music