

Sagar Dhunna

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EDUCATION

University of California Irvine | B.S. Computer Science | Regents' Scholar

May 2026

Overall GPA: 4.0/4.0

Relevant Courses: Data Structure Implementation and Analysis, Discrete Mathematics for Computer Science

PROFESSIONAL EXPERIENCE

Research Assistant | Cal Polytechnic University Pomona | Pomona, CA

Summer 2023

- Led a team of three to generate annotated image data using 3D models for custom object detection training
 - Presented research poster at Cal Poly Pomona's Annual Research Symposium
- Engineered a tailored 3D reconstruction workflow, ingeniously utilizing a combination of cutting-edge tools to bring intricate 3D objects - Post-Processing in **Reality Capture & Blender**
- Employed a pre-existing Unity pipeline to develop synthetic data in COCO format
- Developed custom object detector by training a machine learning model in **Roboflow**
- Achieved promising metrics, **66.1% mAP**, **77.7% precision**, and **62.0% recall**

PROJECTS

RemindMe | *Swift, SwiftUI, UserNotifications, MessageUI, Contacts, CoreData, SendGrid, Twilio*

- Built a **SwiftUI**-based frontend for an **iOS** app, enabling users to schedule and **automate** reminders, send emails, and messages, with a seamless user experience throughout the app.
- Implemented **User Authentication**, **Push Notifications**, **Analytics** in the app using **Firebase SDK**
- Integrated **Contacts** framework to automatically retrieve and populate user birthdays from their device, eliminating manual entry.
- Developed scheduled **messaging (Twilio)** and **email (SendGrid)** functionality allowing users to compose and **automate** reminders, sending emails or texts at specified times with user interaction.

SKILLS

Technical Skills: C++, Python, Swift

LEADERSHIP EXPERIENCE

Outreach Ambassador | (STEM)^2 Program | Cypress College

June 2023 - June 2024

- Collaborated with a team to meticulously organize, plan, and actively participate in events for 400+ program members.
- Conducted **10+ outreach presentations** aimed at educating both new and existing Cypress College students about the (STEM)^2 program, highlighting its valuable benefits and resources

WORK EXPERIENCE

Math Tutor | Optimus Learning School | Brea, CA

February 2024 - Present

- Private lessons with students needing assistance in math (Grade 1 - Calculus 3)
- Followed a weekly English/Math Curriculum to teach 6th grade students throughout summer