David Sohn

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EDUCATION

University of California, San Diego | Bachelor of Science in Computer Engineering — Sep. 2021 - Jan. 2022

- GPA: 3.82/4.0

Chapman University | Bachelor of Science in Computer Science — Aug. 2023 - May 2026

- GPA: 3.948/4.0

EXPERIENCE

Undergraduate Research Assistant — Mar. 2024 - Present

Chapman University | Orange, CA

- Conducted extensive literature reviews and analyzed numerous research articles focused on Electroactive Polymer Displays and various forms of refreshable braille displays
- Collaborated with research group members to synthesize findings and contribute to the development of new insights in the field
- Played a key role in writing and preparing a manuscript for publication, successfully submitting it to a peer-reviewed journal

ADDITIONAL EXPERIENCE

Project Team Member — Jan. 2024 - Present

Power to the People | Orange, CA

- Designed and developed an iOS dash cam app with simultaneous dual camera recording, storing, and exporting features utilizing Swift, SwiftUI, SwiftData, and AVFoundations
- Presented the project to a panel of judges, contributing to winning the President's Pick award
- Collaborated with team members to establish a partnership with the NAACP
- Organized bi-weekly meetings, setting and tracking individual and collective objectives

Shadow Experience — June 2019 - July 2019

Doheny Eye Institute | Los Angeles, CA

- Shadowed researchers and specialists to examine the structure of the eye and studied the use of imaging modalities such as OCT on Choroidal Neovascularization (CNV) cases
- Gained comprehensive understanding of the Institute's contracts, partnerships, and financial aspects related to Diversity, Equity, and Inclusion (DEI) through collaboration with associates.

AWARDS

Undergraduate Student Scholarly Research Grant — May 2024 - Dec. 2024

Chapman University | Orange, CA

- Awarded for a research project proposal on developing a walking stick with computer vision to detect crowds and obstacles.
- Will use OpenMV and Python to train the camera with datasets of common obstacles (e.g., potholes, curbs, nearby feet) and attach it to an Arduino for haptic feedback.
- Plan to develop a mobile app with a WiFi-enabled OpenMV camera to utilize the OpenAI API for conversational user guidance.

President's Pick — Jan. 2024

CruzHacks 2024 | Santa Cruz, CA