

# Arul Saxena

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*Fluent in Java, Python, C++, Javascript, & HTML + CSS; Familiar with R, the AWS Cloud Platform and full-stack MERN development; Experienced in translating problem specifications into software implementations.*

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## EDUCATION

### University of California, Santa Barbara

B.S. Computer Science

- Sophomore in the UCSB College of Engineering Honors Program;  
Cumulative GPA 3.89

**Santa Barbara, CA**

*Expected Graduation: June 2025*

## RELEVANT COURSEWORK

**Problem Solving with Computers I & II** – Data structures, low-level memory management, and object-oriented programming principles

**UCSB**

**Object-Oriented Design** – Advanced OOP topics, operating system design

**Foundations of Computer Science** – Formal logic and discrete math in programming contexts, algorithmic analysis

**Computer Organization & Logic Design** – Assembly language programming and circuit design

**Automata & Formal Languages** – Finite & pushdown automata, Turing machines & computability

**Programming Abstractions** – Developed a Huffman compression tool & maze-solving algorithms

**Stanford University**

**Programming in Swift** – Developed iOS and macOS applications using the UIKit framework

**De Anza College**

**Introductory Statistics** – Used R packages (ggplot2 & dplyr) to analyze and visualize datasets

## PROJECTS

### sD-watch

- Constructed a fitness-tracking digital watch using an Arduino breakout circuit board
- Translated signals from peripheral devices (thermistor, accelerometer, photoresistor) into human-readable metrics (temperature, step count, heart rate)
- Developed a UI for the watch using Arduino C

## EXPERIENCE

### data.ai – Software Intern

*July - August 2022*

- Learned data warehousing practices and ETL (extract, transform, load) techniques, queried databases using SQL on Snowflake
- Using above techniques, generated mobile application performance analytics based on metrics like reviews and advertisement success rate

### theCoderSchool – Code Coordinator

**Cupertino, CA**

*August 2021 - Present*

- Taught programming fundamentals (Java, Python, & Javascript) to individuals & small groups

## ACTIVITIES

### Neural Hacks – Media Manager

*June 2020 - July 2020*

- Developed landing page for [neuralhacks.vercel.app](https://neuralhacks.vercel.app) & managed hackathon with over 600 participants. Raised \$800 in prize sponsorships from Wolfram and Art of Problem Solving.

## AWARDS & ACHIEVEMENTS

- UCSB Regents Scholar (2021-2025)
- AP National Scholar with Distinction (2021)
- Eagle Scout, BSA (2021)