

# Sarah Chun

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<https://github.com/SarahChun6>

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## EDUCATION

### Bachelor of Science in Computer Science

June 2026

University of California, San Diego

3.89

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## RELEVANT COURSES / PROJECTS COMPLETED

### Undergraduate Assistant for NSB Project at UCSC

February 2024 - August 2024

- Studied RabbitMQ, Protobuf, and ns-3 for expanded development on Network Simulation Bridge Project and helped onboard other undergraduates. <https://inrg.engineering.ucsc.edu/project/nsb/>

### CSE134B Web Client Languages

January 2025 - March 2025

- Built a portfolio website with HTML, CSS, JS, and Web Components. <https://schun-portfolio.netlify.app/>

### CSE151A Introduction to Machine Learning

January 2025 - March 2025

- Derived various mathematical methods such as linear/logistic regression, classifiers, gradient descent, support vector machines, dimensionality reduction, and ensemble learning used in neural networks.

### CSE130 Principles of Computer Systems Design

January 2024 - March 2024

- Built a multithreaded HTTP server in C using a Bounded Buffer and Reader-Writer Locks.

### CSE150 Introduction to Computer Networks

September 2023 - December 2023

- Coded a Virtual Web Server using Python socket programming and HTTP protocol.
- Covered the TCP/IP Protocol Stack, switching techniques, error and congestion control mechanisms.

### CSE101 Introduction to Data Structures and Algorithms

September 2023 - December 2023

- Utilized abstract data structures such as Linked Lists, Graphs, and Hashmaps in C/C++ projects.
- Implemented algorithms such as Graph Traversal and Binary Search and Red Black Tree organization.

### CSE13S Computer Systems and C Programming

January 2023 - March 2023

- Simulated Game of Life using the Ncurses library, user-defined data types, and memory allocation.
- Generated Schmidt-Samoa Public and Private keys for encryption and decryption using number theory.

### CSE30 Programming Abstractions: Python

July 2022 - August 2022

- Coded Python programs for Hangman, Tic-Tac-Toe (with recursive minimax), and a Calculator GUI.

### Introduction to Programming in Java

April 2022 - May 2022

- Created interactive animated games such as a 2D Submarine Shooter game and Multiplayer Billiards.

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## WORK EXPERIENCE

### Mercor Math Expert

March 2025 - current

### Starbucks Barista

July 2021 - January 2022

### Bintang Badminton Summer Camp Assistant Coach

July 2022

### UCSC Badminton Club Treasurer

September 2023 - June 2023

### UCSC Group Tutor for CSE80 Intro to Networking and the Internet

March 2023 - June 2023