

Gabby Dow

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EDUCATION

University of San Diego

B.S. in Computer Science, Concentration in Cybersecurity

San Diego, CA

Expected May 2026

- Cumulative GPA: 3.85
- Dean's List First Honors 2023-2024
- Relevant Coursework: Networking, Object-Oriented Programming, Computational Problem Solving, Computer Systems, Linear Algebra, Discrete Mathematics

WORK EXPERIENCE

Teaching/Lab Assistant & Tutor

USD Mathematics and Computer Science

San Diego, CA

August 2024 – Present

- Support university professors in facilitating informative and engaging discussions while offering tutoring sessions and constructive feedback as a dedicated teaching assistant

Aquatics Director & Mentor

Cedars Camps

Lebanon, MO

June 2021 – Present

- Mentored high school and college-age counselors to lead outdoor and educational activities
- Redesigned the summer camp swim lesson program for elementary age kids with daily lesson planning and managing instructors

PROJECTS

Maximum Subsequence Sum

Java, Linux

San Diego, CA

October 2024

- Implemented four different algorithms finding the maximum subsequence sum of user-inputted sets
- Analyzed and compared complexity and total runtime estimation of each algorithm
- Generated research results with extensive evidence using a variety of small and large data sets

Assembly Analysis

C, Linux

San Diego, CA

October 2024 – November 2024

- Designed a program to extract and set data from a packed structure using two different methods: bit fields and shifting & masking
- Compared unoptimized and optimized assembly code to maximize efficiency of source code
- Explored assembly language to understand low-level CPU behavior and ensure accurate processor instruction execution

EXTRACURRICULAR ACTIVITIES AND ORGANIZATIONS

Manager

University of San Diego Cross Country and Track

San Diego, CA

November 2023 – Present

- Maintain detailed records of athlete performance and progress, providing the coach with valuable data for training adjustments
- Foster a supportive atmosphere where team members, regardless of experience level, felt valued and included

Member

Association of Computing Machinery Club

San Diego, CA

August 2024 – Present

Member

Society of Women Engineers

San Diego, CA

August 2024 – Present

SKILLS

Programming Languages: Python, Java, C, C++, GitHub

Technical Skills: Git/GitHub, MacOS, Linux/Unix, Visual Studio Code

Miscellaneous: Dependable, organized, attentive to detail, critical thinker, strong problem-solver, effective communicator, skilled in time management