

Vedant Sinha

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EDUCATION

University of California at Merced, Merced, CA

May 2026

Bachelor of Science, Computer Science and Engineering

Relevant Coursework: Data Structures and Algorithms, Advanced Programming in C++, Calculus 2, Discrete Math, Introduction to Physics, Computer organization and Assembly, Calculus 3, Linear Algebra, Differential Equations, Probability & Stats

WORK EXPERIENCE

TheCoderSchool

Tutor

November 2023 - Present

- Created an inclusive learning environment that sparks curiosity and creativity.
- With a focus on hands-on projects, I empower young minds to explore the exciting world of coding, laying a strong foundation for their future in technology and worked with Python, C, C++

Sandstone INC, Pleasanton, CA

May 2022 - August 2022

Intern

- Tasked to improve data quality in the Green light guru system, Sandstone's product management lifecycle tool (PML).
- Helped the organization utilize the object connectivity to demonstrate the interconnectedness between products.
- Allowed users to analyze, interact, and visualize the relationships in their quality system in a centralized network view

CODING PROJECTS

Wordle Game Remake (4-8 letters)

January 2024

- Conceptualized and developed an extended version of the Wordle game in C++, accommodating word lengths spanning from 4 to 8 letters.
- Proficiently used C++ to develop the entire Wordle game, including the game mechanics, user interface, and input validation. This project reflects my passion for problem-solving and creating enjoyable experiences for users.

Wordle Game Bot

May 2024

- Developed an advanced Wordle solver in C++ designed to automatically deduce the target word in Wordle puzzles.
- Employed C++ to create a highly efficient Wordle solver, leveraging the language's capabilities to optimize algorithm performance.

Tic Tac Toe Game with AI Player

May 2024

- Developed a fully functional Tic Tac Toe game, including an intelligent AI player capable of strategic moves.
- Implemented data structure algorithms such as graphs to ensure an engaging and challenging gaming experience with different levels of difficulty.

LEADERSHIP & COMMUNITY INVOLVEMENT

Karate Instructor

Patna, India

July 2022

- Engaged with a college community and designed a structured self-defense curriculum and attempted to promote safety awareness and personal responsibility
- Equipped students with the skills and knowledge to make informed decisions regarding their personal security.

Open Heart Kitchen

August 2019 - May 2022

Volunteer

- Actively participated in the preparation of nutritious and wholesome meals for community members facing food insecurity.

Boy Scouts of America

November 2021- May 2022

Troop Guide

- Mentored and guided new Scouts, facilitating their integration into the troop.
- Taught essential outdoor and Scouting skills, supported advancement, and fostered leadership development.
- Maintained effective communication and exemplified positive Scout behavior.