

Tommy Tran

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Education

University of California, San Diego

Cumulative GPA: 3.88

Bachelor of Science

Expected June 2026

Major in **Cognitive Science, Machine Learning and Neural Computation Specialization**

Minor in Computer Science

Relevant Coursework: Python Programming, Java Programming, Data Structures and Algorithms, Probability Theory, Multivariable Calculus, Linear Algebra

Projects

CodeWordle

Dec 2023

- Designed a **Python** version of the renowned game Wordle, focusing on algorithm complexity and UI
- Enhanced the game's complexity by implementing custom game modes and integrating **natural language processing** techniques to analyze and generate word lists
- Crafted a feedback mechanism using **ANSI escape codes** to provide visual cues for letter accuracy, word position, and incorrect guesses

Tic-Tac-Toe

Jan 2024

- Constructed a **Python** game console for two-player matches, incorporating **Pygame** for graphical representation
- Developed an algorithm capable of predicting and countering user moves, utilizing **numpy** for rapid gameplay computations and employing mathematical calculations to present a consistent design
- Established a versatile Pygame framework that enabled the development of game features admired and utilized by a broad user base

StudyBuddy

Oct 2023

- Engineered an innovative web-based platform designed to foster academic collaboration
- Applied **advanced CSS techniques** for custom typography, color schemes, and interactive elements and consistent user experience across various platforms
- Integrated front-end development techniques using **HTML, CSS, and Bootstrap**

Organizational Planner

Oct 2023

- Designed a personal scheduling web application tailored to individual productivity and organization habits
- Employed **HTML** and **CSS**, particularly **HTML Coding Tables**, to achieve a structured presentation of scheduling features

Experience

Boba Barista | Presotea, Torrance

Dec 2021 - Sept 2023

- Promoted to Shift Lead position 2 months after being hired
- Trained and guided over 30 employees with positive reinforcement, facilitating efficient work environment
- Multitasked with cleaning stations, making drinks, and helped over 100 customers per day

Community Helpline Operator | Community Helpline, Inc., Palos Verdes Estates

Jul 2021 - Jul 2022

- Promoted to mentor, responsible for instructing new volunteers in properly handling calls
- Enhanced other volunteers' calls by supervising and creating solutions in high-pressure situations
- Managed call machines and offered support to hundreds of individuals each month

Technical Skills

Programming: Python, Java, MATLAB

Developer tools: HTML, CSS, Javascript, Bootstrap, VSCode, Microsoft Office, FIGMA