Edward Q. Zou

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EDUCATION

University of California Santa Cruz — Santa Cruz, CA
Bachelor of Science in Computer Science; GPA: 3.86 (Dean's Honors List) — *Aug. 2022 – Present*
- Relevant Courses: Data Structures and Algorithms, Appl Discrete Math, Comp Sys and C Prog, Com Sys/Assmbly Lan, Vector Calculus, Linear Algebra

PROJECTS

CFE Environment — 2024 – Present
- Developed CPU initialization and bootstrap code for use on processors like the STM32 and its derivatives.
- Implemented functions to initialize CPUs, caches, memory controllers, and peripherals.
- Developed and optimized ARM assembly code for the STM32, integrating into hardware peripherals.

My Portfolio Website — 2023 – Present
- Developed a personal portfolio to showcase projects and professional experiences.
- Implemented responsive design and interactive elements using HTML, CSS, and JavaScript.
- Deployed website and built email queries through the UI directly

Stock Market Game — 2022 – 2023
- Developed Stock Market Game that allows user to login and perform trades using artificial currency.
- Makes use of data from Yahoo Finance to pull live data to simulate the actual stock market.
- Used React and Highcharts to represent data pulled, coded website in JS and HTML.

HoyoVerse Simulation Tool — 2024 – Present
- GenshinCalculator is a simulation tool designed for users to optimize their characters. The tool uses intricate simulation logic and statistical calculations to accurately model and optimize in-game gear and weaponry.
- Pulled in-game data to perform analysis on the the time frame of reaching the highest achievements in the game by using complex algorithms to simulate randomized gear drops.

EXPERIENCE

Teacher/Tutor — June 2018 – Present
All Star Institute — *Fremont, CA*
- Taught 100+ students through private and group tutoring in all areas of the sciences.
- Taught classes on Java, Python, as well as Geometry/Algebra 2 to competitive mathematics (AMC 8, 10, 12).
- Currently teaching math olympiad and python in person.

Teacher's Assistant — Aug. 2021 – Jun. 2022
University of California Santa Cruz — *Santa Cruz, CA*
- Assisted preparing Labs, Exams, homework, study material, and grading assignments for 153 students.
- Helped specific students with learning issues to understand concepts and improve their grades.
- Hosted office hours and private tutoring sessions.

Dining Hall Worker — June 2023 – Present
UCSC Cowell/Stevenson Dining Hall — *Santa Cruz, CA*
- Performed a variety of semi-skilled and skilled food preparations, serving, maintenance, and safety and sanitation functions.
- Maintained a smooth and efficient workflow while working in a team environment.

President/Founder — August 2023 – Present
UCSC Poker Club — *Santa Cruz, CA*
- Founded UCSC poker, organized tournaments and educational sessions with professional player mentors.
- Grew the club to 200+ members, both students and locals.
- Held weekly meetings dedicated to studying probability and practicing games/tournaments.

SKILLS

Languages: Python, Java, HTML/CSS/JS/React, Linux, Assembly, C, C++
Tools: Solidworks, Fusion360, Photoshop, Lightroom, Final Cut, Adobe Premiere Pro
Other: Digital and Film (35mm) Photography