Andrew Zhao

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EDUCATION

University Of California San Diego, La Jolla CA   Expected June 2026
Bachelors of Science, Computer Science, GPA 3.92
University Of California Santa Cruz, Santa Cruz CA   August 2022 - June 2024
Cypress **College,** Cypress, CA   August 2016 - May 2022
Dual Enrollment in Cyber Security, Computer Science during Grades 7 to 12

RELEVANT EXPERIENCE

IDTECH Products, *Software Engineering Intern* (Website)   June 2024 - October 2024
- Gained in-depth knowledge of the software development cycle, payment industry and payment processing workflows.
- Developed a demo application for the VP6825 payment device using IDTECH's ZSDK API.
- Built a Node web server with ZeroMQ Library to enable communication between a webpage and the ZSDK server, facilitating integration with IDTECH payment devices.
- Worked in a Scrum-based Agile environment, delivering incremental product features within bi-weekly sprints.

iD Tech Camps, *Information Technology Intern* (Website)   June 2023 - August 2023
- Directed and expanded computer science-related curriculums such as 3D printing and design, video game development, VR game development, machine learning, and programming for high school students.
- Installed, configured, and inventoried laptops, network equipment, printers, cameras, and other technologies.
- Responded to and addressed inquiries from customers with concerns.

BreadMasters Gavel Club, *Co-Founder, President* (Website)   August 2021 - September 2022
- Led a Youth Toastmasters club of high school students from across the US, China, Africa, and Canada on Speech preparation, debate, presentations, and other public speaking skills.
- Managed supportive club meetings and conducted events to facilitate members' leadership skills and personal growth.

Young Engineers in Action, *Chief Technology Officer (CTO)* (Website)   May 2021 - January 2022
- Designed, and managed the organization's website overseeing all technical aspects
  - Improved the website's legibility, accessibility, and navigation features.
- Coordinated groups of students to compete in competitions such as TARC, AMC 8,10,12, Math Olympiad, Cyberpatriot, and Hackathons.

Pacific Stem, *Web Developer*   May 2021 - January 2022
- Developed and maintained a website, increasing audience retention by 20% and web traffic by 10%.
- Researched start-up companies and contacted their leadership to connect students with job and internship opportunities.

PROJECTS

Garden Go - React Application (Devpost) (GitHub)   August 2023
- Developed the frontend interface using React Native, allowing users to swipe and navigate between multiple pages each with unique functionality.
  - Designed and constructed main web pages with a drawer panel for plant info
  - Connected the React Native front-end and the Python backend via virtual server
- Developed the back-end in Python to pull data from online plant databases.

Small Personal Programming Projects
- **Reactive ChatBots(Discord) -** Developed a Python-based chatbot that responds to user messages
- **3D pathfinding Bot -** Developed an algorithm in Lua that allows a bot to detect and procure specific materials while navigating an open world in a modded version of the game Minecraft (Link)

Awards and Volunteering

- CompTIA IT Fundamentals Industry Certificate
- Cypress College Cyber Defense Certificate (Link)
- US Navy SeaPerch underwater robotics National finalist(link)

Skills

- **Programming Languages:** Proficient in HTML, CSS, Java, JavaScript, Python, C, C#, C++, Bash, Lua, React
- **Foreign Language:** Chinese
- **Experienced with:** Google Suite, Microsoft Visual Studio, Git, Linux/Unix, mininet, WSL