

ZUO WANG

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EDUCATION

University of California San Diego
M.S. in Computer Science (Robotics)

La Jolla, CA | 09/2025–Present

University of Washington
B.S. in Human Centered Design & Engineering (Data Science)

Seattle, WA | 09/2019–06/2023

GPA: 3.77

Involvement: Teaching Assistant, Engineering Peer Educator, Peer Connection Leader, Unite UW Facilitator

Awards: Emerging Leaders in Engineering, Statira Biggs Scholarship, Dean's List

WORK EXPERIENCE

Ronbow Corp– Software Engineer

Livermore, CA | 08/2023–09/2025

- Led the development of a manufacturing execution system (MES) using Apache and Flask in a rapid CI/CD process, transforming the production process into a data-centric operation.
- Architected and maintained the backend SQL database to ensure scalability and performance.
- Improved the efficiency of the gluing process by configuring robotic arm systems, achieving a 50% boost in productivity.

UCSD Design Lab, DigiHealth Lab – Research Intern

San Diego, CA | 06/2022–09/2022

- Engineered front-end applications for an advanced ML anemia detection system on Android and iOS.
- Utilized OpenCV, Camera2 API, and iOS AVCam to monitor hemoglobin levels.
- Bridged hardware and software components to deploy the prototype in underprivileged areas worldwide.

XiaoMi – Software Engineer Intern

Beijing, China | 09/2020–12/2020

- Designed user interfaces and managed application life cycles for 3D audio projects in Android Studio.
- Interacted with the hardware protocols by developing a native library in C.
- Experimented with the intersection of 3D audio and augmented reality using ARCore.

SELECTED PROJECTS

Raspberry Pi Carplay + Voice Assistant

05/2024–09/2024

- Integrated Google Map API in a Flask direction app based on post-NLP input from PyAudio and spaCy.
- Optimized runtime based on a custom routing planning algorithm.
- Installed and configured hardware components to enhance the functionalities of the Raspberry Pi.

AjiAji

10/2022–04/2023

- Co-founded an Asian-inspired ice cream company that achieved 52% ROI in 2 months of sales.
- Developed recipes, coordinated production logistics, and expanded product catalog.
- Directed marketing, including the creation of a video that reached 20k accounts and received 4k likes.

An Artificial Intelligence Approach to Backgammon

01/2023– 03/2023

- Created a game agent using Minimax Search, Alpha-Beta Pruning, and Expectiminimax Search algorithms.
- Optimized the efficiency of the agent by tuning the heuristic evaluation.

CORE SKILLS

Programming languages: x86, bash, C, Java, Javascript, Python, HTML/CSS, Flutter/Dart, SQL

Software: Git, Vim, Apache, Flask, Pandas, NumPy, PyTorch, CAD, Figma

Others: RESTful API, JSON, Linux, Network Programming, Universal Robots, Raspberry Pi