Elise Ji

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EDUCATION

UNIVERSITY OF CALIFORNIA IRVINE

Bachelor of Science, Major in Computer Science **June 2026**
- Regent Scholar | Dean's Honor List [2022-2023] | GPA: 3.7

PERSONAL PROJECTS

Clean P.A.W.S. Recycling Bin | *Robolow, YOLOv5, Python, OpenCV, Raspberry Pi, Google Colab* **January 2024**
- Implemented a live object-detecting automated recycling bin that leveraged machine learning to reduce waste.
- Trained a **YOLOv5** machine learning model and created a custom **Roboflow** dataset with **1000**+ images to differentiate different types of recyclables and was able to achieve a **95.8%** mean average prediction value.
- Programmed functions of pixel detection, ultrasonic sensors, motors, and audio detection utilizing Python, Raspberry Pi, and Cv2 module, for correct bin placement and detect bin fullness through ultrasonic waves.

Health Pack | *Google Cloud, Firebase, Firestore, React, HTML/CSS, Vue.js* **March 2024**
- Led a team of 4 programmers and developed a "health passport" web-app to empower people with information about their health in order to reduce misdiagnoses and to increase patient safety.
- Integrated the frontend and database functionalities within Firebase and the Vue.js framework, ensuring **real-time data** collection and storage of symptoms, health history, and medication schedules.
- Utilized Python to compile health journal data and to integrate medication reminders via Google Calendar API.

Campus Nest | *Firebase, Firestore, React, HTML/CSS* **May 2024**
- Developed a software solution with **11**+ webpages to streamline the house searching process for college students.
- Implemented robust backend functions utilizing **Firebase** and **Firestore storage** to secure user authentication, store/retrieve private user information, and real-time data collection ensuring up-to-date listings.
- Developed frontend and backend functions to filter/locate housing with an interactive map, store digital paperwork, and find compatible housemates through the Firestore, React, and **React Leaflet.**

EXPERIENCE

UC Irvine Donald Bren School | *Teaching Assistant - Programming with Software Libraries* **April 2024 - June 2024**
- Collaborated closely with instructional team and provided support for **300**+ students on key programming principles such as data types, object-oriented programming, functions, Tkinter, and APIs to enhance learning.
- Organized weekly lab sessions offered to students where 1-to-1 guidance was given to students struggling with debugging/troubleshooting on programming assignments and exams.

Artificial Intelligence at UC Irvine | *Webmaster* **June 2024 - Current**
- Developed and maintained the AI at UCI's main website containing informational content, updated member profiles, and showcased projects members worked on utilizing React, HTML/CSS.
- Collaborated with board members to organize and design a new website design for better user interface and navigation for information, registration, project showcases, board information, etc.

Star Kids | *Python Instructor* **June 2021 - June 2024**
- Led and provided instructional support for **20**+ students, focusing on Python and mathematics, with an objective to advance education in developing nations such as Nepal and Mongolia.
- Formulated personalized learning curriculums accommodated to large classroom settings for both disciplinaries.

ADDITIONAL INFORMATION

- Technical Skills: Python, C++, React, Firebase, Three.js, HTML/CSS, Javascript, Google Colab, Roboflow, YOLOv5
- Related Coursework: Data Structures and Algorithms, Discrete Mathematics, Linear Algebra, Probability Theory
- Non-Technical Skills: Korean (Proficient), Communication, Team Oriented, Problem Solving