

# Elise Ji

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## EDUCATION

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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

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**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

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**ARTIFICIAL INTELLIGENCE AT UCI** Irvine, CA

**Webmaster Board** 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 experience and navigation for information, registration, project showcases, board information, etc.

**STAR KIDS** San Francisco, CA

**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 across both coding and mathematical development.

## ADDITIONAL INFORMATION

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- Technical Skills: Python, C++, React, Firebase, Three.js, HTML/CSS, Javascript, Google Colab, Roboflow, YOLOv5
- Related Coursework: Data Structures Impl & Anls, Design & Analysis of Algorithms, Linear Algebra, Calculus III
- Non-Technical Skills: Korean (Proficient), Communication, Team Oriented, Problem Solving