Raymond House

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EDUCATION

University of California, Irvine, *B.S. in Software Engineering* — Graduating Jun 2025 | Irvine, CA

RELEVANT COURSEWORK

Data Structures and Algorithms(C++) | Object Oriented Programming(C++) | Fundamentals of Digital Security

Discrete Mathematics | Multivariable Calculus | Linear Algebra | Differential Equations | Physics:Mechanics

EXPERIENCE

Student Researcher, *UC Irvine School of Medicine* — 2023 Jul – present | Irvine, CA
- Contributed to the development of the Android version of a CNN-based app which identifies commonly used eyedrop medication.
- As a back-end developer, I integrated the machine-learning model into the android app using ML Kit.

Computer Lab Technician Intern, *De Anza CompTechS* — 2022 Apr – 2022 Aug | Cupertino, CA
- Worked with a team to repair computers and offer them to students in need.
- Responsibilities included repairing and testing Windows 10, requisite drivers, and software for academic use.

Brand Representative, *Hollister Co.* — 2021 Sep – 2022 Jan | San Jose, CA
- Rotated between a variety of roles, including cashier, replenishing stock, and helping customers find merchandise.
- Used a series of communicative techniques taught by the company to offer a welcoming experience.

PERSONAL PROJECTS

Full Stack Bill Split App, *Flutter, Dart, Firebase, ML Kit*
- Managed back-end services and database operations with Firebase to establish user authentication with data privacy in mind.
- Designed and developed a comprehensive payment app using Flutter and Dart.
- I integrated Firebase ML Kit to implement a receipt scanning feature, used to automate expense tracking.

Subreddit Sentiment Analysis, *Python, HTML, Flask*
- Web application engineered to utilize Natural Language Processing(NLP) to discern the sentiment polarity associated with any given search term within a user-specified subreddit.
- Synergized with the Google Sheets API to seamlessly generate a spreadsheet detailing the results, categorizing them according to polarity. The app highlights engagement trends among certain communities on reddit.

AI Malware Detection, *Python, Qt, Docker, SkLearn, Pefile*
- Developed a web application using Qt to scan Portable Executable files for malware using a machine learning model.
- Trained and tested the model using Scikit-Learn to achieve an accuracy of 99% based on file attributes that do not require executing the file.
- Containerized the application with Docker to retain consistency across multiple environments.

Personal Website, *HTML/CSS, Javascript* ⧉
- Developed a website from scratch that has links to personal Github and LinkedIn, accessed through raymondhouse.net using Github pages.

SKILLS & INTERESTS

Skills:
C/C++, Python, Dart, Java, Javascript, Flutter, Flask, Qt, Firebase, ML Kit, Scikit-Learn, Docker, HTML/CSS, Agile Methodology

Interests:
Software Development, Data Management, Deep Learning, Neural Networks, Attending Hackathons, Snowboarding, Surfing