

Rachel Navarro

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EDUCATION

University of California, Irvine

Computer Science and Engineering, B.S., expected graduation 2022

Campuswide Honors Program

PROJECTS

Home Surveillance Camera with Remote Access — Summer 2019

- Developed a Raspberry Pi application to stream surveillance video over the Internet, enabling the user to view real time video and control camera pan/tilt angles from their web browser.
- Utilized Flask framework to host the application.
- Implemented motor control and video processing using Python, and created user interface using HTML/CSS/Javascript.

Crossword Puzzle Solver — Summer 2019

- Implemented a HTML/CSS user interface that communicates with a corresponding Python back-end websocket server that generates potential solutions.
- Facilitated client-server communication via websockets.

2-D Animation Illustrator — Spring 2019

- Implemented model-view-controller architecture to create a basic rendering program that ultimately enables a user to generate and animate various types of simltons on a blank canvas.
- Designed and developed a Python GUI using Tkinter.

Stock Metrics Calculator — Winter 2018

- Developed a Python program that utilizes data from the IEX API to compute true range, simple moving average, and n-day directional indicators in regards to past stock prices.
- Generated reports on potentially opportune times to buy or sell, based on automated buying-and selling strategies determined by such metrics.

LEADERSHIP

Social Media Intern, Society of Women Engineers (SWE)

- Researched user behavior and reviewed analytics surrounding online campaigns.
- Developed visual identity and generated promotional material across Instagram, Facebook, and Snapchat, driving engagement between SWE and the UCI student body on social media platforms.

Class Representative, Filipinos Unifying Student-Engineers (FUSION)

- Liaised with committee representatives to generate insights for future FUSION expansions.
- Organized club engineering projects such as electric skateboard prototyping.

SKILLS

C++, Python, R, JavaScript, HTML, CSS, Linux(Ubuntu, Raspbian), Flask, Git, Bash/Shell, Microsoft Office, Adobe Creative Cloud

HACKATHONS

AthenaHacks 2019

Worked closely with team members to conceptualize, design, and prototype an early-stage printer-locating application for college campuses.

HackSC 2019

Led back-end design efforts and brainstormed product features for a personal fitness app that logs and calculates health-related metrics to help athletes understand their performance from a quantitative perspective.

AWARDS

2018 Patricia R. Dempster
Scholarship Recipient

State of California Seal of
Biliteracy for Spanish

VOLUNTEERING

American Red Cross

Facilitated registration
services at local blood
donation centers.