Alfredo Sequeida

alfredosequeida.github.io | alfredosequeida@outlook.com

sellphone.io 01/2018
Created a full-stack web application where people can sell their used smartphones with ease by scheduling pickups or shipping in their devices. During active periods Sellphone handles over 2,000 users per month and generates over $80,000 per year in revenue. (Python, Django, Bootstrap, HTML, CSS, JavaScript, Linux, Gunicorn, Nginx, Let's Encrypt, Digital Ocean, Unsplash API, eBay API)

raker 01/2020
Created a full-stack web application to find the best prices for items on local marketplaces such as Craigslist, Offerup, Facebook marketplace, and Letgo using a series of multi-threaded headless Selenium instances to periodically find products based on user-specified criteria such as name, price, and location. Users were notified of these automated finds via email and SMS. (Selenium, Python, Django, Bootstrap, HTML, CSS, JavaScript, Linux, Gunicorn, Nginx, Let's Encrypt, Digital Ocean)

Fvid 10/2020
https://github.com/AlfredoSequeida/fvid

To explore the possibilities of alternative cloud storage solutions, I created a program to store any file as a video using 1-bit color images to survive compression algorithms. The program was able to successfully encode files into videos and then decode them to get back the original data after being uploaded and stored on YouTube's servers. (Python, FFmpeg)

Nerf Gun Call of Duty Warzone Controller 04/2021
https://github.com/AlfredoSequeida/Nerf-Gun-Call-of-Duty-Warzone-Controller

Featured in the news by the Raspberry Pi Foundation.

Turned a Nerf Gun into a PC game controller using custom 3D printed parts, a repurposed old Android phone, and a Raspberry Pi 4 model B. (Python, Kotlin, Raspberry Pi, OpenSCAD, Shell/Bash)

Karen (An Amazon Echo Clone) 12/2020

https://github.com/AlfredoSequeida/karen

Created a clone of Amazon's Echo device using a Raspberry Pi 4 model B as the brains. To easily install add-ons, I also made a custom cross-platform mobile app using React Native that interacts with the device using ssh. To keep track of the add-ons available to install, I created a custom web API, as well as a website where users can submit their add-ons. (Python, Shell/Bash, OpenSCAD, JavaScript, React Native, Django, Django Rest API)

EDUCATION

California State University Long Beach
Pursuing a bachelor's degree in Computer Science. Expected graduation date: March 2023.