Homero Ochoa

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Education

University of California, Irvine   Sept 2016 - June 2021
Bachelor of Science, Materials Science Engineering

Projects

ForTheRecord (Python/Javascript)
- Developed a full-stack web application that **allows music fans to connect** by providing a refined list of comments for their currently playing Spotify tracks.
- Created a **Django backend** with models to connect to a **PostgreSQL** database that saves user, song, and comment data.
- Designed a **REST API** using the **Django REST framework** to serialize data and handle requests from the front end using appropriate endpoints.
- Accessed Spotify data via the **Spotify Web API**, obtained authorization permissions using **OAuth 2.0** — Used the **Youtube API** to search for corresponding videos and comments.
- Created a **ReactJS** frontend paired with **ChakraUI** to allow users to log in, access songs, and view comments

Camera Recommendation Site/Web Scraper (Python)
- Developed a site that recommends users a film camera based on their interests, price range, and photography preferences.
- Created **Django templates with forms** to accept user input based on predetermined prompts to determine their preferences and budget.
- Incorporated eBay scraping functionality using the **BeautifulSoup** Python package to generate an average cost of the recommended camera based on current market prices.

Work Experience

Kett Engineering   July 2021 - Nov 2021 | Aug 2022 - Present
Test Driver
- Ensured vehicles met company quality standards by conducting testing and collaborating with the test engineering team to document and report faults.
- Maintained confidentiality of company information by following company protocol on vehicle secrecy.

Element Materials Technology   Nov 2021 - Aug 2022
Metallurgist/Associate Engineer
- Performed metallurgical testing via optical microscopy in accordance with ASTM, AMS, and customer end-user requirements.
- Tracked and organized test data using Microsoft Excel; implemented VBA scripts and macros when necessary to improve efficiency and functionality of data acquisition.

Skills

- Python, Javascript, HTML, CSS
- Django, ReactJS, Bootstrap, Git, PostgreSQL