FERNANDO ALFARO

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Projects

SoundScene

Developed an innovative web application that uses a Python algorithm to recommend music, movies, or TV shows based on users' media consumption history. The front end, built with HTML, JavaScript, and CSS, delivers an attractive, seamless, and resourceful user interface. The back end utilizes Flask, Python, and MongoDB to fetch data from the database, populate user searches, and store login and account information. JavaScript and CSS are used to elegantly display user data in a horizontal portfolio, allowing users to view various titles and hover over them for more information.

ECAMS BillBoard

I collaborated with Lewis University and other students to develop an ECAMS Billboard that displays a catalog of university events, professors, and important news. I was specifically responsible for developing the Science and Aviation department billboards, where I managed web applications, MongoDB setup, and database information. I used JSON and JavaScript scripts to connect to the server and ensure the information was correctly displayed. Additionally, I used a Raspberry Pi to upload the billboards to Lewis University kiosks.

Shoe Store Android App

I developed a mobile application that facilitates the donation of shoes to users for free. Using Android Studio, I created an application featuring multiple fragments, intents, menus, and RecyclerViews to deliver a seamless experience where users can view men's and women's shoes and place their orders. I integrated Google Firebase dependencies for user authentication and implemented scripts to store order information in the Firebase database when users place their orders.

BMI Calculator

Developed a BMI Calculator that calculates a user's BMI and risk factor based on their height, weight, and age. The front end uses HTML and CSS to style the web application. In the backend, JSON data is used to call an Azure Function that processes BMI calculations and determines the user's risk factor based on the accumulated score.

Technical

HTML/CSS	Python	C/C++
Kotlin	Javascript	VS Code/Pycharm/Android Studio
Git/GitHub	Node.js/Python-Flask/RestAPI	Windows/Linux/MacOS

Experience

BMO Harris Bank
Teller

2017-2019

Managed and balanced the cash drawer, ensuring accuracy in daily transactions. Processed deposits, withdrawals, and payments efficiently. Successfully sold financial products, including mortgages, credit cards, and HELOCs. Oversaw safety deposit box visits and supported supervisors in maintaining the branch cash vault.

Abri Credit Union
Universal Banker

2019-2020

Handled account openings, loan applications, and fraud disputes. Managed account transactions, including deposits, withdrawals, cashier's checks, and payments. Networked with clients to build rapport and discuss account reports.

Education

May 2021 - Dec 2022

Joliet Junior College - Joliet, Illinois
Associates in Applied Science, Computer Science — 3.6 GPA

Jan 2023 - Aug 2024

Lewis University - Romeoville, Illinois
Bachelors in Science, Computer Science — 3.7 GPA

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