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https://fnmalik2002.github.io/faizanmalik.github.io/

Summary

When my urge to know inner working of the computers exposed me to the world of programming, I knew that I am all in for it. Since then my thirst for knowing more is not ending. As a result I learnt Python, HTML CSS, JavaScript, Django, Bootstrap, Pandas, Matplotlib etc. Countless cycles of learning, coding, failing, re-thinking, retrying, improving have made me passionate about programming to the point that I feel like its about time to align my career with my passion.

Experience

AppleInfo Software

Self

https://github.com/fnmalik2002/my-mac-hwInfo

Problem:
At a local business, a tedious, slow and manual work to record test results for Apple MacBook hardware before reselling them. They were in need of a better and efficient solution.

Solution:
I designed, developed, tested and deployed a software solution to solve this problem. Its a multi component software made in Python, using libraries like wxPython, pymysql, qrcode, sh, datetime, subprocess. The description of main components is as follows

1-- A standalone app to run on a Mac under test in order to automatically gather its hardware info, and populate this data onto a GUI form made using wxPython library. It allows technician to enter physical condition and then submit all data to a database table on network.

2-- A backend SQL database made in MariaDB which is served from a CentOS 8 server on the network. Database has two users, an admin user having full access and a standard user having limited access. Moreover, the database is locked to be accessible from the local network only for admin and standard users.

3-- A database viewer app that runs on a network computer. It has functions like search, view and print records from the database. The search function is designed to search by any field. This app is designed in wxPython library and looks like a spreadsheet and is limited to fetch 300 records at a time.

" This project help me understand SQL queries, Linux command line, MacOS command line, python data types, classes, variables, methods etc. I cried three times when program stuck at apparently a dead end and I thought I have to give up making it further but something inside me did not let me quit. Eventually I overcame and passed through those points and learnt that if you don't give up then every dead end is actually an opportunity to learn a new skill and that makes you better than before. "

Terminal Script

Self

https://github.com/fnmalik2002/bash-script

Problem:
A local business was having trouble finding if an Apple computer is enrolled in Apple DEP program. They wanted a speedy and easy way to find it out.

Solution:
After researching, found a way to verify DEP enrollment status of an Apple computer. Built a terminal script around it to run on individual computers.

Mac Keyboard Test

Self

https://github.com/fnmalik2002/MacBook-Keyboard-Test

Problem:
On my current job, they were using a general online keyboard tester for testing Mac which was unable to test all keys on the MacBook or full iMac keyboard.

Solution:
Created a keyboard tester using Python 3.9 specifically designed for MacBook Pro as well as for full size Apple keyboard for iMacs with complete keyboard layout made in wxPython.

Python Label Module

Self

https://github.com/fnmalik2002/MacLabelPrint

Problem:
Needed a label maker that can create and print formatted labels on cups printers on Macs from within your code. Could not find any suitable python module anywhere.

Solution:
Created a python module that can be imported into your code. It takes data in the form of a dictionary and prints a formatted label for you.

Wifi Signal Plotter

Self

https://github.com/fnmalik2002/Wifi-Signal-Live-Graph

Problem:
Needed a wifi signal strength graph that is plotting in real time so that one can find the wifi dead spots in the house or office.

Solution:

Created a wifi signal strength plotter utility, made in Python 3.9 using MacOS terminal command output as data which is stored in sqlite3 database and Matplotlib for creating live graph on a wxPython Panel. Other python libraries used were pandas, datetime, subprocess.

Education

Houston Community College
Certificate Java Programming Language

This certificate introduced me to core programming concepts like object oriented programming, polymorphism, encapsulation, loops, variables, code blocks, inheritance etc

University of the Punjab
Master's degree, Chemistry

Developed skills like designing and conducting tests, chemical analysis, researching out of problems, handling group work as well as independent work, verbal and written communication, reasoning and changing opinion based on new facts

Licenses & Certifications

Google IT Support Specialization - Coursera
RXHPWASVGZQJ

PCEP – Certified Entry-Level Python Programmer - Python Institute
51Rm.HTHp.hQD0

Skills

Python (Programming Language) • Django • Cascading Style Sheets (CSS) • JavaScript • CentOS • MariaDB • Bash • GitHub • Pycharm • Microsoft Visual Studio Code