Hammad Rafique

Software Engineer | Python Developer

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Education:

Bachelors of Science in Software Engineering   September 2020 – July 2024
- COMSATS University Islamabad, Vehari Campus
- Graduated with CGPA *3.38*

Projects:

SiiSolTEA – Desktop App for financial Data Processing (Python, Excel, Numpy)   June 20, 2024
- The project aims to efficiently process financial data, provide real-time insights, and generate reports.
- Local Client Project for efficiently calculating financial data for Profitable Green House Business.
- Utilizes Python libraries such as numpy, pandas, xlwings, matplotlib, numpy-financial, openpyxl, etc. for efficient data handling, processing, visualization, and report generation.

WinMag App – Controlling Windows Remotely commands (Python, Flutter)   May 15, 2024
- Developed a flutter app to control & automate Windows OS through voice commands remotely.
- Allow file sharing and live desktop screen streaming using WebRTC between python and dart.
- Utilized in-depth knowledge of Python, Django API, NLP, OpenAI, OCR, Regex, whisper, TTS and flutter.

Networking Desktop Application for Controlling Series of Networks (Python, Pyqt6)   April 5, 2024
- Developed a standalone network security solution, automating user authentication, session management, and seamless billing processes (Jazz Cash, Bitcoin, Etherium).
- Implemented Admin and User Modules for centralized monitoring and secure resource access.
- Utilized in-depth knowledge of Python, Django API, and Windows Internal API.

Airlines Tickets Price Trends & Prediction (Python)   June 5, 2023
- Implemented machine learning model using the Random Forest algorithm to predict flight fare prices.
- Prepared and cleaned the dataset, adhering to the specified column format.
- Leveraged essential Python libraries, including sklearn, numpy, seaborn, matplotlib, and pandas, to build and optimize the Random Forest model for accurate fare price predictions.

MoviesHUB – Plex Clone Movie Site (Asp.Net)   February 8, 2023
- Employed ASP.NET Web Forms for server-side logic and responsive front-end design
- Proficiently utilized Visual Studio for project development, debugging, and code management.

Arduino Based Radar System (C++)　　　　　　　　　　　　　　December 30, 2021

- Developed a radar system using Arduino UNO, HC-SR04 ultrasonic sensor, and SG90 servo motor.
- Designed a simple circuit connecting the servo control pin and ultrasonic sensor pins to the Arduino.
- Visualized radar data using Processing application for display and analysis.

Skills:

Language Proficiency:

- C++ (Native Language)
- C# Language (6 months Experience)
- Flutter Dart Language (Intermediate)
- Python Programming (Expert)

Planning to Learn:

- React Native
- Web Development Frameworks
- GoLang Language
- Node.js / Angular.js

Strong Project Experience:

- Django Framework
- HTML/CSS/JavaScript
- Tkinter / Pyqt6
- Selenium/Scrapy Spider
- QtDesigner/Figma UI
- GitHub/Git
- Regex Patterns
- SQL / MongoDB

Soft Skills

- Strong problem-solving abilities
- Excellent research skills
- Strong communication skills
- Rapid learner of new languages and technologies

Certificates:

Crash Course on Python　　　　　　　　　　　　　　　　　　　October 12, 2022

Coursera, Google

- Understand what Python is and why Python is relevant to automation
- Write short Python scripts to perform automated actions
- Understand how to use the basic Python structures: strings, lists, and dictionaries

Data Analysis Using Python　　　　　　　　　　　　　　　　　October 15, 2022

Coursera, University of Pennsylvania

- Understand Data Frames, joining data, and use data analysis libraries like pandas, numpy, matplotlib.
- Load, inspect, and query real-world data, and answer basic questions about that data
- Analyze data further by applying data aggregation and summarization, and visualization.

Using Python to Interact with the Operating System　　　　　October 27, 2022

Coursera, Google

- Setup, configure, and use your own developer environment in Python
- Manipulate files and processes running on the Operating System using Python
- Understand and use regular expressions (regex), a powerful tool for processing text files
- Know when to choose Bash or Python, and create small scripts using Bash.