Hamza Rehman

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Profile

As a dedicated and aspiring software engineering student in my final year at Final International University in North Cyprus, I am committed to pursuing excellence in my field and contributing to innovative projects that make a positive impact. My academic journey and hands-on experience have equipped me with a strong foundation in software development and a passion for problem-solving in the world of technology. I consistently leverage my skills and knowledge to achieve mutual goals in team environments, ensuring collaboration and success.

Education

2021 – present
Kyrenia, Cyprus

BS Software Engineering
Final International University
Final Year

2017 – 2019
Peshawar, Pakistan

Fsc Pre-Engineering
Edwardes College

Projects

E-Learning platform
MERN Stack
A term project on E-learning platform was implemented using microservices architecture. The project was supposed to allow users to register and display courses to them for online education. Different services were integrated seamlessly into single system. Services such as user-management and jwt authentication along with the management of courses were handled by Node.js, whereas frontend service was handled by React.js. These services were integrated using API endpoints.

Data Science
Campus Classroom Data Analysis
A model was created using python to analyze the data obtained from different classrooms on the campus. The data included different features and amenities of the classrooms e.g, area, floor, number of chairs, smartboards, wifi quality, noise around etc. The initial goal was to clean the data of messy entries, outliers and converting categorical feautures into numerical features to ensure consistency. The end goal was to extract different patterns in the form of bar charts and heatmaps. These outcomes helped in giving us correlations and variablility among different features. A meaningful story was created about the data after observing these results.

AI Model
Python
Worked on a term project in AI which was able to predict the readmission risk, of diabetic patients, in the next thirty days. Two models were used for the prediction, a traditional machine learning model, Random Forest, and a neural network model. The models were trained first on the provided dataset and then tested. After the comparison of both the models, random forest was performing better than the neural network with an accuracy of around 65%.

Professor and university rating application
ASP.NET (MVC)
Created a web based application using ASP.NET MVC that would allow users to be able to rate their respective professors or universities. The project was designed in a way so that users can only rate their own universities and professors. This was achieved by restricting users to be able to register only with their university's email. Overall rating would be calculated based on individual ratings. Users would also be able to write anonymous comments.

Pizza Ordering System
Windows Forms (.NET Framework)
Created pizza ordering application that would allow users to select their choice of pizza, it's quantity and toppings. After finishing the order an invoice would be created with all the details about the order. Object oriented approach was exercised using C# language.

Skills

Programming & Coding
C/ C++/ C#(Windows Forms)/ Python/ HTML/ CSS
Node.js

Database
MySQL
Microsoft Access
MongoDB

Microcontrollers
Arduino Uno

Project Management Tools
Github
Asana

MS Office Skills
MS Word
Excel Spreadsheets
PowerPoint

Development Frameworks
ASP.NET MVC
Windows Forms (.NET Framework)

Development Platforms
Visual Studio
Visual Studio Code
MySQL Workbench
Proteus

Software Project Management & Design
SDLC (Software development lifecycle)
Agile Methodologies
Crystal Methodology

Proficient Communication
Collaborative, Good Listener,
Presentation Skills

Interests

- Software/ Web Development
- Artificial Intelligence/ ML
- Astronomy