Romaisa

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Objective	To leverage my skills as a frontend web developer and UI/UX enthusiast to contribute to a dynamic organization, while continuously expanding my knowledge in the fields of web development, AI, and deep learning. As a passionate and dedicated 3rd-year Computer Engineering student, I am eager to apply my expertise in creating intuitive and visually appealing user interfaces, enhancing user experiences, and staying up-to-date with the latest industry trends. Through collaboration and innovation, I aim to contribute to the success of the company and grow both personally and professionally.

Education

Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI)   Topi, PK
Bachelors of Science in Computer Engineering   2021 - 2025
CGPA: 3.37/4.00

Tameer-i-Wattan Public Schools & Colleges Abbottabad   Abbottabad, PK
Qualification   2019 - 2021
Grades: 3 As

Work Experience

NETRONiX   Topi, PK
Network Administrator at GIKI   2021 - Present

Academic Projects

Portfolio Website

Designed and coded a dynamic personal portfolio using HTML, CSS, and JavaScript, with initial design mockups created in Figma. Demonstrated a fusion of creativity and technical proficiency by seamlessly translating Figma designs into a responsive and visually engaging website. The project showcases my expertise in web development and the ability to bridge design concepts with functional code for an optimal user experience.

Tesla Front End Clone

Successfully executed a front-end clone of the Tesla website, leveraging HTML, CSS, and JavaScript to replicate the sleek and responsive user interface. Meticulously designed and implemented the project, ensuring an authentic representation of Tesla's design aesthetics and functionality. A testament to my commitment to mastering web development and delivering polished, user-centric experiences

Resolve Hub

Created RESOLVEHUB, a web app streamlining complaint management for students, faculty, and workers. Users log complaints, track progress, and ensure swift resolutions. Utilized HTML, CSS, and JavaScript for the front-end, Python with Flask for dynamic functionality, and PostgreSQL for database management.

Remote Control, Light Following Robot

Designed a versatile robot using Arduino, motors, sensors, and Bluetooth for light-following and remote-controlled functions. Utilized components like LDR modules, L298 Motor Driver, and HC-05 Bluetooth Module. Programmed in C using Arduino IDE, adapting the robot's behavior to light conditions and responding to Bluetooth commands. Technologies included Arduino, C, MIT App Inventor, and Bluetooth communication

University Network Infrastructure

Implemented a university network infrastructure for scalability and security using Cisco routers and switches. Advanced technologies, including a Cisco ASA 5505 firewall, were employed for data traffic efficiency and network reliability. The project involved meticulous planning, testing with Packet Tracer, and a systematic workflow, creating a resilient environment supporting academic, administrative, and research activities securely.

Speech Signal Enhancement

Enhanced speech signal quality by implementing MATLAB-based signal processing techniques. Employed a Butterworth low-pass filter, Short-Time Fourier Transform (STFT), pre-emphasis filter, and Wiener filter to reduce noise and improve speech intelligibility to demonstrate expertise in signal processing for real-world applications

PCA Analysis

Executed Principal Component Analysis (PCA) on Multispectral Image of the Thar Desert in Pakistan using Python and Jupyter Lab. Applied dimensionality reduction techniques by centering the data, computing the covariance matrix, and sorting eigenvalues and eigenvectors. Achieved effective data compression for enhanced analysis and interpretation.

Course Management System

Developed a Course Management System using C++ with a focus on file handling. The system enables students to log in or sign up, providing options to add or withdraw courses. This project serves as an application of file handling techniques in C++, showcasing proficiency in data management and user interaction within the course management context.

E-Shopping Billing System

Developed an E-shopping Billing System project using C++ with a focus on OOP, file handling, and operator overloading. The system enables users to select and purchase items online, generating a receipt. This project showcases proficiency in C++, OOP principles, and modularized code organization.

Awards & Achievements

- Dean's Honor List

Skills

- Web Development: HTML CSS JavaScript Figma (UI/UX design) Flask PostgreSQL -Programming Languages: C C++ Python MATLAB -Network Infrastructure: Cisco Packet Tracer