YOUSUF RAHMAN

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EDUCATION

Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI), Topi, Swabi (2020 – 2024)
Bachelor of Science | Computer Engineering | CGPA: 3.022/4.0

Habib Public High School (Karachi, Pakistan) (2018 – 2020)
HSSC | Pre-Engineering | Result: 865/1100

Habib Public School (Karachi, Pakistan) (2009 – 2018)
SSC | Pre-Medical | Result: 850/1100

WORK EXPERIENCE

SIUT Hospital
- Completed 30 hours of volunteering at SIUT Hospital.
- Contributed my talents and skills to enhance the care and provide service and support to the patients there.

Indus Hospital
- Achieved 30 hours of volunteering at Indus Hospital.
- Worked with volunteers from all over Karachi, to assist and facilitate patients there.

Institute of Electrical and Electronics Engineering (IEEE)
- Contributed to the IEEE Society at GIKI by organizing and managing All-Pakistan events, social events, and liaison activities.

GIK Sports Society
- Managed inter-GIKI sports events, looking over all the resources needed to function the events smoothly.
- Worked towards providing the best infrastructure for sports in GIKI, promoting students to participate in sports activities at GIKI.

ACADEMIC PROJECTS

Medical Chatbot Language Model
- Produced a Medical Chatbot that was intended to connect with clients in a conversational way, giving medical services-related data, direction, and backing.
- Training of data was done using ANN and the intents.json file was used to produce the responses.
- Project benefiting clients with enhanced accessibility and immediate responses.

18 Degree of Freedom Hexapod (DOF)
- Designed and manufactured 18 degree of freedom (DOF) hexapod robot which can be used for a variety of tasks, including search and rescue, inspection, and material handling.
- The robot parts were designed by SolidWorks and printed by a 3D printer, and all programming was done on PIC18F IC.

Raptor
- Developed a computer called Raptor that contains all basic computer requirements, such as a memory adder register, accumulator, and instruction register.
- The computer contains 20 bits of instruction size and approximately 16,000 words can be stored.

Campus Restaurant Website
- Created a website for our university restaurant that was capable to connect students to the university restaurant, helping students order the food they want online while sitting in their rooms.
- The website uses different programming languages, including HTML, CSS, PYTHON, and SQL.

Library System
- Worked in a group of 3 people, developing a library system using the concepts of C++, Object Oriented Programming, and Data Structures.

4-Bit Password Security System
- Manufactured a 4-bit password-based security system. Allowing the user to enter a four-bit code and unlock the system if the code gets matches the code stored at the backend.

SKILLS

- Proficient in software (Proteus, MATLAB, CREO, MULTISIM, KEIL, EXCEL, PowerPoint, Word, SolidWorks,Adobe Photoshop)
- Proficient in IDE (MPLAB, Dev-C++, Visual Studio, Jupyter Notebook, PyCharm)
- Programming Languages (Python, C, C++, HTML, CSS, JAVA, SQL)
- Problem-Solving, Adaptability, and excellent Communication skills
- Leadership, and Teamwork.
- Interests: Football, Swimming, Hiking, Camping, Traveling.