Saad Khan

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Apartment no. 25, Faisal Town
F-17
Islamabad
Pakistan

Objective

To obtain a challenging position that fully utilizes my skills and provides me with suitable opportunities to grow my technical and soft skills which would help me as a fresher to grow while working towards the organizational goals.

Education

Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI)
Topi, PK
Bachelor of Science in Computer Engineering
2020 - 2024
CGPA: 2.92/4.00

Work Experience

Intern at Good Space
New Delhi, India
- Assisted in market research, data analysis, and marketing campaign planning, leading to increase outreach and user-base achieving 20% audience growth.
7 April 2022 - 27 June 2022

Intern at ERISP, Peshawar IT Park
Peshawar, Pakistan
- Contributed as a team member in the development of diverse projects including websites & software solutions for various clients, completing 4 different projects.
June 2022 - Aug 2022

Leadership & Entrepreneurial Society - Head Person
Topi, PK
- Collaborated with The Catalyst, GIK Incubator to introduce start-up culture on campus and organized professional seminars, achieving 200% audience growth.
- Led the collaboration with 3 startups providing opportunities to 15 undergrads.
- Remodeled & redeployed society's website to achieve 210% more audience & created a new GUI for easy data collection of students reducing 80% interviews time.
Nov 2020 - Present

Giki Team Invictus: Testing & Design Head
Topi, PK
- Testing aircraft components & modules to ensure performance and safety. Directed design team, fabricated a compact streamline jet plane with speeds over 100km/h.
Nov 2021 - Present

Academic Projects

18 DOF HEXAPOD Using Raspberry Pie
- Engineered an 18 DOF Hexapod using Raspberry Pi & concepts of inverse kinematics in a 3d printed chassis.
- Used Threading in python for coding. Also, programmed a GUI as well as a TCP server for wireless connections.

Find Yourself a Mentor Website Using Heroku & Django
- A mentor-matching website for incoming university students. Utilized various Web development skills to create a visually appealing and user-friendly website.
-> Frontend 1: JavaScript 2: HTML 3: CSS -> Backend 1: PostgreSQL 2: Python

Election Management & Voting System Using Data Structures
- Developed an Election management system in C++ using Data Structures, OOP & Pointers. It utilized linked lists & sorting algorithms like Merge sort etc. to efficiently store, retrieve & sort information about voters and candidates.

Mercy: Protect Thy Honor (2D Graphics Game) in C++ Using OOP
- Developed a 2-player 2D game with smooth FPS (60 or 144) inspired by Streetfighters. Utilized SDL2 libraries for visuals, Text & Music. Applied concepts of OOP such as polymorphism & inheritance to develop various features.

FPV Drone
- Engineered & Constructed an FPV drone utilizing an F4 processor and a radio control system. Implementing PIDs to achieve smooth flight with zero noise and multiple flight modes. Excellent video quality with minimal lag.

Yelp Web Scrapper Using Python
- A web scraper using Python to gather Mass information on diverse businesses & storing them in an Excel sheet.
-> Libraries used: (beautifulsoup4, openpyxl, requests)

Giki Mess Management System Documentation
Utilized software engineering methodologies to develop user manuals, technical documents, UMLs & flowcharts.

Awards & Achievements

- Neo 22, Figure 8 Winner by IEEE
- Best Project Award in 3rd Semester & 5th Semester
- Certifications: Full stack Django with AI from Udemy & Web Development with React.js from Coursera
- Organized over 3 blood camps in span of 3 years, The last one having the highest number of bloodbags, over 300+ donated by any institute in collaboration with Red Crescent.
- Advanced AI learning Algorithm- Coursera Certification
- Supervised Machine Learning: Regression and Classification - Coursera Certification.
- Unsupervised Machine Learning: Reinforcement learning - Coursera Certification.

Skills

- Programming Languages: C/C++, Python, JavaScript, CSS3/HTML5, Assembly, Verilog, RISC-V
- Frameworks: Django, Node.js, React.js, React-Native, SQLite, PostgreSQL
- Tools: Solid Works, Proteus, MATLAB, Keil, Muiltisim, MP-Lab, GitHub, Linux, Vivado, VS Code, Jupyter/Collab, Canva, Visual Paradigm
- Microcontrollers: 8051, PIC18F, Arduino, Raspberry Pi
- Soft Skills: Excellent Problem Solving & Adaptability, Communication, Leadership, Time Management,Teamwork, Academic Technical Report Writing