

HASSAN MAQBOOL

FRONT-END DEVELOPER

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[Github](https://github.com/hassan42772): <https://github.com/hassan42772> | [Linkedin](https://www.linkedin.com/in/hassan-maqbool-7716113a8/): <https://www.linkedin.com/in/hassan-maqbool-7716113a8/>

ABOUT ME

I am a passionate Front-End and IoT developer with 3 years of hands-on experience in building smart, user-friendly solutions. I specialize in developing responsive web applications that seamlessly integrate with IoT systems, connecting hardware and software into interactive, real-time dashboards. I enjoy turning ideas into practical, innovative projects that make everyday tasks easier and more efficient.

WORK EXPERIENCE

IOT DEVELOPER | PAZHONG AUTOMATIONS

2022-2024

- Developed custom IoT solutions using Arduino UNO , Arduino Mega , Arduino Nano and ESP32 company client needs
- Designed and integrated sensors (ultrasonic, RFID, temperature, gas, etc.) for real-time data monitoring and automation systems.
- Implemented web dashboards to monitor and control IoT devices remotely.

FRONT-END DEVELOPER | PAZHONG AUTOMATIONS

2022-2024

- Worked as a web developer creating responsive, user-friendly websites using HTML, CSS, JavaScript, and Firebase for local clients.
- Built real-time dashboards to visualize IoT device data and system status.
- Improved website performance, responsiveness, and cross-browser compatibility.

PROJECTS

Expert Tutors Website - <https://experttutors.netlify.app/>

- Developed an educational platform website to showcase tutoring services, provide course information, and make it easier for students to connect with expert tutors.

Carbon Monoxide Detection System - <https://github.com/hassan42772/CoDetectorInterface>

- Developed a Carbon Monoxide Detector using Arduino Uno and MQ-7 sensor, with a real-time web interface built using HTML, CSS, and JavaScript to display sensor data on a graph.

Smart Dustbin with Email Service - <https://github.com/hassan42772/Smart-Dustbin-With-Email-Service>

- Built a Smart Dustbin using IoT technology with Ultrasonic Sensor, and ESP8266 Wi-Fi module to detect trash levels and send automated email alerts using SMTP with real-time monitoring.

Smart Blind Stick - <https://github.com/hassan42772/BlindStickProject>

- Developed a Smart Blind Stick using IoT sensors to detect obstacles and provide real-time alerts to visually impaired users for safer navigation.

Smart Parking System (IoT & Web) - <https://github.com/hassan42772/Smart-parking-System->

- An IoT-based system that uses sensors to detect parking slot availability and displays real-time updates on a web dashboard.

PROGRAMMING SKILLS

- **FRONTEND** : **HTML, CSS, JAVASCRIPT** (Events, Objects, DOM manipulation, Browser APIs, and API data fetching and rendering), **React Js** (continue)
- **IOT** : **Arduino** (UNO, Mega, Nano, picko) and **ESP32** microcontrollers, programmed using Arduino IDE for real-time IoT applications.
- **DATABASE** : **FIREBASE INTEGRATION** (use Firebase for real-time data storage, retrieval , Built multiple interactive forms and dashboards using Firebase to manage and display device and user data.)
- **SOFTWARES**: VsCode , PyCharm, arduino Ide , Ms word , Canva , Sublime text

EDUCATION

BACHELOR OF SCIENCE IN COMPUTER SCIENCE (BSCS)

2022-2026

The Islamia University of Bahawalpur

CGPA : 3.73 / 4.00