

Habib Hussain

Rawalpindi, Pakistan

+92-312-3292976

Internet OF Things

Objective:

Greetings! I'm Habib Hussain, a dynamic and self-taught specialist in IoT, AI, and Cloud Computing with a wealth of international project experience. Having successfully delivered over 100 projects in these fields, I possess a comprehensive understanding of hardware integration, AI algorithm development, and cloud deployment. Proficient in both front-end and back-end development, I am passionate about leveraging emerging technologies to create innovative solutions. Eager to apply my expertise in a collaborative team setting, I am committed to contributing to impactful projects while continuing to grow professionally in the ever-evolving realm of IoT, AI, and cloud computing.

Education:

November 2020 – July 2024

National University of Science and Technology

Bachelor of Engineering (Major Electrical, Minor Software Engineering)

Skills:

- Languages: Urdu (native), English (fluent), Sindhi (native)
- Proficient in Python, C and Hardware programming
- Communication

Additional Skills:

- Linux / Debian / Ubuntu
- Raspberry Pi/ Jetson Nano / ESP32/ NRF52/ Lora Wan
- AWS IoT Core, Cloud computing
- Unity 3D, Blender
- Docker
- Git/ GitHub

Work Experience:

August 2022- Upwork.com

- Starting with simple hardware programming and hitting Top Rated in 2 months.
- Offered IoT and AI services to most of the international companies.
- Provided complete solutions for the cutting-edge technologies from hardware to server deployment.

March 2023 -June 2023: Started work as Team lead in Java JClass USA (Remote)

- Worked as team lead for developing automated grass cutting Robot.
- Designed customised PCBs, and 3d structure for robot.

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Work Experience:

Nov 2023- Jan2024 6G ENERGY PVT LTD. Internship on solar power and smart power control system

- Smart IoT based solar power control system.
- Industrial safety measures and precautions
- Production optimization based using latest tools.

Top Projects:

HUZ Smart Home System

- Engineered and deployed a sophisticated Smart Home System utilizing PlatformIO for streamlined development, ESP32S3 microcontrollers for efficient processing, and C coding for firmware development, ensuring seamless integration of smart functionalities.
- Development of a user-friendly mobile application using Flutter framework, enabling homeowners to remotely control and monitor household appliances with ease.
- Firebase backend services for real-time data synchronization and cloud storage, enhancing the scalability and reliability of the Smart Home System.
- Implemented voice recognition for intuitive control of smart devices, enhancing user experience and accessibility.

FireVa Fire Alarm System

- Developed a fire alarm control system using Raspberry Pi, incorporating deep learning and AI for detecting fire hazards and sending alerts to users' mobile devices.
- Integrated emergency response feature to alert local safety authorities via the 1122 hotline in case of detected fire incidents.
- Utilized advanced image recognition algorithms to swiftly identify dangerous fire situations and trigger timely alerts for prompt action.

Smart Parking System

- Developed a Smart Parking Management System using NRF52 and sensors to detect incoming and outgoing vehicles, efficiently managing parking space allocation.
- Integrated NRF52 to send real-time updates to an AWS server, ensuring accurate tracking of available parking spaces and facilitating data-driven decision-making.
- Designed and implemented a user-friendly mobile app, enabling users to book parking spaces conveniently and receive timely updates on availability.
- Implemented Bluetooth connectivity between NRF51 and the mobile app, allowing recognition of users with booked parking spaces upon arrival, streamlining the parking process.

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Open-source Projects:

Correlation object tracker:

https://github.com/HabibMCS/Correlation_tracker.git

Raspberry pi and ESP32 Cam stream:

https://github.com/HabibMCS/RaspberryPi_ESP32camstream.git

Profile Links:

Upwork:

<https://www.upwork.com/freelancers/~01d61da2b76fafc0f4>

LinkedIn:

<https://www.linkedin.com/in/habib-habib-911a85217/>