Mahtab Alam

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As an Electronics Engineering student, I am focusing on enhancing my abilities in React and Microcontrollers for Embedded Systems. I am eager to apply my developing skills in a professional setting that emphasizes practical electronics applications.

Educational Background

1.Diploma in Engineering
Electronics and Communication
Jamia Millia Islamia University
Present
2. **Matriculation (10th)**
Paramount Academy, Silout
Bimal Muzaffarpur
March 2021

Skills

- **Microcontrollers Used:**
  1. Arduino Uno
  2. ESP32
- **Programming Languages:**
  HTML, CSS, JavaScript, ReactJs

- **Networking:** Certified in Computer Hardware and Networking
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Certification

1. **Computer Hardware and Networking(MSME)**
   Jamia Millia Islamia, New Delhi
   May 2023 to August 2023

2. **E-SDP in Artificial Intelligence**
   Jamia Hamdard, New Delhi
   December 2023 - January 2023

Projects

1. **Blog App: (Ongoing)**
   1.Technologies Used:
- **Frontend**: React
- **Backend**: Appwrite
- **User Authentication**: Appwrite's authentication services
- **Data Management**: Appwrite's database services

2. Keypad Home Lock Using Arduino Uno :
Developed a secure keypad-based home lock system using Arduino Uno, a 4x4 matrix keypad, a solenoid lock and a buzzer.
- **Functionality:**
  1. Users enter a numeric code to lock or unlock the door.
  2. Correct codes trigger the solenoid lock to unlock the door.
  3. Incorrect codes activate the buzzer.
- **Programming:**
  Coded in Arduino IDE, incorporating library for keypad.
- **Outcome:** Created a reliable home security solution.

3. Home Automation Using ESP32 and Blynk App:
- Designed and implemented a home automation system using the ESP32 microcontroller.
- Utilized ESP32's WiFi capabilities to connect and control devices remotely via the Blynk mobile app.
- **Working on Bluetooth control:** Currently enhancing the project to allow control via Bluetooth for added flexibility.
- **Outcome:** Enabled remote control and automation of home devices, enhancing convenience and efficiency.