MONISH R

Biomedical Engineering undergraduate, seeking roles in embedded systems or software development where analytical thinking and system-level understanding can be applied

Contact

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skills

- Java
- C programming
- Problem-Solving
- IoT & Embedded
- Data Structures
- My SQL

EDUCATION

- B.E - 2023-2027
  BIO MEDICAL
- CGPA - 8.17

LANGUAGE

Tamil

English

PROJECTS

Console-Based Tic-Tac-Toe (XO) Game

- Developed a console-based Tic-Tac-Toe game using Java, implementing game logic, turn-based flow, and win-condition validation.
- Applied arrays and control structures to manage the game board and player moves.
- Ensured input validation and proper game termination scenarios (win/draw).

IoT-based smart lighting system using ESP32

- Designed and implemented a Wi-Fi and Bluetooth controlled smart lighting system using a microcontroller programmed via Arduino IDE.
- Used web server to receive HTTP requests and control light states in real time.
- remote control via web interface and Bluetooth

Non-Invasive Optical Hemoglobin Estimation System

- Developed a non-invasive hemoglobin estimation prototype using optical sensing techniques, eliminating the need for traditional blood-based testing.
- Designed the system to analyze light interaction with biological tissue to predict hemoglobin levels.