

# FAWAZ AHMED ANWAR BATCHA

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LinkedIn Profile | Github Profile

Chennai,Tamil Nadu-India

## OBJECTIVE

Highly-Motivated individual with a strong desire to take on new challenges. Adept at working effectively unsupervised and quickly mastering new concepts. Seeking an entry-level role to apply knowledge and hands-on experience to contribute to innovative projects and real-world problem-solving. Quick learner with a strong work ethic and adaptability.

## EDUCATION

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|---|---|-----------------|
| • <b>Vellore Institute of Technology(VIT)</b> | <i>B.Tech Electronics and Communication Engineering</i> | <i>May 2025</i> |
|   |   | Chennai, India  |
| • <b>Ideal Indian School</b>                  | <i>Secondary Education</i>                              | <i>May 2021</i> |
|   |   | Doha, Qatar     |

## PROJECTS

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|--|-------------------------------------|
| • <b>IoT-Based Drinking Water Quality Monitoring System</b>  | <i>March 2024 - May 2024</i>        |
| Tools: <i>ESP32, TDS/EC Sensor, DS18B20 Sensor, OLED Display, Thingspeak IoT Platform</i>  | [🔗]                                 |
| ◦ Developed an IoT-based system to monitor drinking water quality by measuring electrical conductivity and temperature, and implemented real-time data transmission to the Thingspeak platform by integrating ESP32 with TDS/EC and DS18B20 sensors. |                                     |
| ◦ Created a display for water quality parameters on an OLED screen, ensuring compliance with WHO standards for safe drinking water, and applied sensor integration techniques to analyze water quality parameters.                                   |                                     |
| • <b>Real-Time Prediction and Optimization of Solid Waste Generation Patterns</b>  | <i>August 2024 - November 2024</i>  |
| Tools: <i>Python, Google colab, Kaggle Datasets</i>  | [🔗]                                 |
| ◦ Developed a predictive and optimization framework for urban solid waste management using SARIMA, XGBoost, and Meta-Regressor, achieving high accuracy in forecasting waste generation patterns and optimizing waste collection schedules.          |                                     |
| ◦ Implemented real-time data processing and feature engineering using Kaggle datasets, handling large-scale time-series data to support decision-making and improve model performance with Optuna-based hyperparameter tuning.                       |                                     |
| • <b>Temperature Controlled Fan Using Arduino</b>  | <i>March 2024 - May 2024</i>        |
| Tools: <i>Arduino Uno, DHT11 sensor, 16x2 LCD, DC Fan, potentiometer, Arduino IDE</i>  | [🔗]                                 |
| ◦ Developed an energy-efficient fan system using Arduino technology, featuring real-time monitoring, dynamic speed adjustment, and user interface elements for versatile applications in various environments.                                       |                                     |
| ◦ The system's modular design allows for scalability and customization, demonstrating the potential for practical applications in temperature regulation for server rooms, households, and industrial settings.                                      |                                     |
| • <b>Voice-Controlled and Obstacle-Avoiding Robotic Car</b>  | <i>March 2024 - May 2024</i>        |
| Tools: <i>Arduino UNO, HC-05, ultrasonic sensor, L298N, DC motors, MIT App Inventor, Arduino IDE</i>   | [🔗]                                 |
| ◦ Developed a voice-controlled robotic car, equipped with an Arduino UNO, HC-05 Bluetooth module, and ultrasonic sensors, uses Google Speech Recognition for wireless control and autonomous navigation.   |                                     |
| ◦ The project showcases seamless human-robot interaction, safe navigation, and modular design, showcasing integration of robotics, IoT, and automation technologies for scalability and future enhancements.   |                                     |
| • <b>Blog Web Application</b>  | <i>June 2025</i>                    |
| Tools: <i>Node.js, Express.js, EJS, Bootstrap, CSS</i>   | [Link for Web Blog Application] [🔗] |
| ◦ Developed a Web blog platform with CRUD functionality, allowing users to create, update, and manage blog posts.  |                                     |
| ◦ Implemented server-side routing with Express.js and dynamic content rendering using EJS templates.   |                                     |
| ◦ Designed a responsive, user-friendly interface using Bootstrap and custom CSS for enhanced UI/UX.  |                                     |
| • <b>Dice Game Web App</b>   | <i>May 2025 - June 2025</i>         |
| Tools: <i>HTML, CSS, Javascript</i>  | [Link for Dice Game Web App] [🔗]    |
| ◦ Developed a two-player dice game that rolls dice on page refresh and dynamically displays the winner using DOM manipulation.   |                                     |
| ◦ Used JavaScript to generate random numbers, update dice images based on results, and determine the game outcome.   |                                     |
| ◦ Designed a clean and responsive layout using HTML and CSS for a simple interactive user experience.  |                                     |

## • Tindog Website clone

Tools: HTML, Bootstrap, CSS

May 2025

[Link for Tindog Website ]

- Built a simple, responsive and mobile-friendly landing page inspired by the Tinder UI, tailored for dogs.
- Utilized Bootstrap components such as grid system, cards, buttons, and navbar for layout and styling without custom JavaScript.
- Focused on clean UI/UX design using only HTML, CSS, and Bootstrap, ensuring compatibility across devices and screen sizes.

## SKILLS

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- **Programming Languages:** C, Java
- **Cloud Technologies:** AWS (Amazon Web Services)
- **DevOps & Version Control:** Git, Github
- **Mathematical & Statistical Tools:** Matlab-Simulink
- **Other Tools & Technologies:** Visual Studio Code(VSC), Microsoft Office Suite (Word, PowerPoint)

## CERTIFICATIONS

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- **AWS Certified Cloud Practitioner (AWS CP)**
- **AWS Certified Solutions Architect – Associate (SAA)**
- **MATLAB Onramp**

February 2024

October 2024

July 2023

## LANGUAGES

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English (Upper Intermediate)

Tamil (Native/Bilingual)