

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

- **Vellore Institute of Technology(VIT)** May 2025
B.Tech Electronics and Communication Engineering Chennai, India
- **Ideal Indian School** May 2021
Secondary Education Doha, Qatar

PROJECTS

- **IoT-Based Drinking Water Quality Monitoring System** March 2024 - May 2024
Tools: ESP32, TDS/EC Sensor, DS18B20 Sensor, OLED Display, Thingspeak IoT Platform [\[G\]](#)
 - 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.
- **Real-Time Prediction and Optimization of Solid Waste Generation Patterns** August 2024 - November 2024
Tools: Python, Google colab, Kaggle Datasets [\[G\]](#)
 - 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.
- **Temperature Controlled Fan Using Arduino** March 2024 - May 2024
Tools: Arduino Uno, DHT11 sensor, 16x2 LCD, DC Fan, potentiometer, Arduino IDE [\[G\]](#)
 - 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.
- **Voice-Controlled and Obstacle-Avoiding Robotic Car** March 2024 - May 2024
Tools: Arduino UNO, HC-05, ultrasonic sensor, L298N, DC motors, MIT App Inventor, Arduino IDE. [\[G\]](#)
 - 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.
- **Blog Web Application** June 2025
Tools: Node.js, Express.js, EJS, Bootstrap, CSS [\[Link for Web Blog Application G\]](#)
 - 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.
- **Dice Game Web App** May 2025 - June 2025
Tools: HTML, CSS, Javascript [\[Link for Dice Game Web App G\]](#)
 - 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

- **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

- **AWS Certified Cloud Practitioner (AWS CP)** February 2024
- **AWS Certified Solutions Architect – Associate (SAA)** October 2024
- **MATLAB Onramp** July 2023

LANGUAGES

English (Upper Intermediate)

Tamil (Native/Bilingual)