RAGUL N

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LinkedIn   GitHub

SUMMARY

Engineering student specializing in Electronics and Communication with a strong foundation in IoT and Web Development. Recognized as Winner of Smart India Hackathon 2023 for developing impactful technical solutions. Skilled in IoT systems using Arduino and ESP32, with beginner-level knowledge in Java and Python. Passionate about building cost-efficient, scalable solutions and continuously improving technical expertise.

SKILLS

Technical Skills:
Programming: Python, Java (Foundational)
Database: SQL
Web Development: HTML, CSS, JavaScript
IoT & Embedded Systems: Arduino, ESP32, Sensors, Cloud Integration
Tools: Git, VS Code

Soft Skills:
Problem-Solving
Time Management
Team Collaboration
Adaptability

Languages:
English (Intermediate)
Tamil (Fluent)
Hindi (Basic)

EXPERIENCE

Intern - Rinex   Sep 2023 – Nov 2023
Developed user-friendly interfaces using HTML, CSS, and JavaScript.
Improved website design, responsiveness, and cross-browser compatibility.

PROJECTS

Early Decomposition of Fecal Matter   Dec 2023
Developed an IoT-based system to accelerate fecal matter decomposition using microbial and chemical treatments, converting waste into valuable fertilizer and bio-gas.
Technologies: Arduino, Temperature Sensor, Ultrasonic Sensor, PH sensor, LCD display, Gas sensor.

Smart Traffic Management System (Mini Project)   Mar 2025
Implemented a real-time IoT system to manage traffic efficiently, including AI-based vehicle detection and weather-adaptive signal control.
Technologies: Arduino, ESP8266, RFID module, IR sensors, LEDs, Cloud Storage.

EDUCATION

Velalar College of Engineering and Technology
Bachelor of Engineering, Electronics and Communication Engineering (ECE)
Expected May 2026
CGPA: 7.9

Kongu Velalar Matriculation and Higher Secondary School
HSC | Completed May 2022
Percentage: 79.5%

AWARDS & CERTIFICATIONS

Smart India Hackathon 2023 - Winner (Ministry of Education, Govt. of India)

Technovanza 2K25 - First Place (Shree Venkateshwara Hi-Tech Engineering College)

Implant Training in Web Development (Codebind Technology, Dec 2024)

Data Analytics with Python (NPTEL, Jan–Apr 2024)

PROJECT IMPACT

Technological Solution for Early Decomposition of Fecal Matter:
Improved sanitation and reduced waste decomposition time.
Promoted sustainable resource generation (fertilizer and bio-gas).