

BARANIDHARAN S

ECE Student | Aspiring Software Developer | Problem Solver

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Career Objective

An Electronics and Communication Engineering student passionate about building secure, intelligent software and hardware solutions. Strong in networking, problem-solving, and edge AI/IoT projects, delivering tasks accurately, on time, and with robust solutions.

Skills

Programming Languages : Java, Python

Web Technologies : HTML, CSS

Languages : Tamil, English

Database : SQL

Additional Technologies : IoT Fundamentals

Soft Skills : Problem Solving, Communication, Teamwork

Projects

IoT Enabled Water Distribution System | IoT, Arduino, NodeMCU | Developer 2024

- Developed an IoT-based smart water distribution and monitoring system using Arduino and NodeMCU.
- Integrated turbidity, flow, and float sensors for real-time water quality and water flow monitoring.
- Implemented automated water control using solenoid valves and wireless IoT communication for efficient water management.

Intelligent IoT Solution for Sleep Apnea | IoT, ESP32, Arduino Nano | Developer 2025

- Developed an IoT-based sleep apnea monitoring system using ESP32 and Arduino Nano for real-time health monitoring and apnea detection.
- Integrated sensors and ThingSpeak cloud platform for monitoring SpO₂, heart rate, respiration, and remote patient data analysis.
- Published a research paper and implemented the system for real-time patient monitoring and testing.

Real-Time Public Tracking System | IoT, GPS, Arduino | Developer 2026

- Developed a real-time public vehicle tracking system using IoT, GPS, and Arduino technologies
- Implemented live location monitoring and real-time tracking for efficient transportation management.

Education

VSB Engineering College, Karur

Bachelor of Engineering - Electronics and Communication Engineering

Kongu Polytechnic College, Perundurai

Diploma - Electronics and Communication Engineering (81%)

Govt Higher Secondary School, Nathakadaiyur

HSC – State Board (62%)

Internship

Mobitech Wireless Solution, Perundurai (June 2023)

IoT & Irrigation Automation Intern

- Worked on IoT-based smart irrigation and automation systems.
- Learned sensor monitoring, weather station analysis, and irrigation controllers.
- Gained hands-on experience with circuit simulation tools and precision farming technologies.

Certifications

GUVI : Java Programming Certification

FORAGE : GenAI Powered Data Analytics Job Simulation

NAAN MUDHALVAN : Printed Circuit Board (PCB) Design

Achievements

- Solved 250+ problems on LeetCode in Java. LeetCode
- Maintained active coding practice in Java and DSA.
- Earned a 50-day badge on LeetCode, showcasing consistency.

Declaration

I hereby declare that the above-mentioned information is true to the best of my knowledge and belief.