

JASWANTH K KUMARAN

IoT Developer

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SUMMARY

Computer Science and Engineering graduate with a strong interest in Internet of Things (IoT), Embedded Systems, and Home Automation. Skilled in Python, C, SQL, Arduino, ESP32, Raspberry Pi basics, and IoT communication protocols. Passionate about developing smart automation systems using sensors, microcontrollers, and cloud technologies. Quick learner with strong analytical and problem-solving skills.

EDUCATION

Bachelor of Engineering

Computer Science and Engineering (IoT)

Sri SaiRam Engineering College

Graduated: 2026

TECHNICAL SKILLS

Programming Languages

- Python
- Java
- SQL

Embedded Platforms

- Arduino
- ESP32
- Raspberry Pi (Basics)

IoT Technologies

Arduino IDE, MQTT, Wi-Fi, Bluetooth, HTTP Protocol, Home Automation

Sensors

Temperature Sensor, Ultrasonic Sensor, PIR Sensor, Relay Module, moisture sensor

Tools

Git, GitHub, VS Code, Postman, Thinkercad

TRAINING

IoT Python Learner

Self Learning

- Learned IoT architecture and communication protocols.
- Worked with ESP32 and Arduino microcontrollers.
- Built sensor-based automation applications.
- Developed Python programs for IoT applications.
- Learned cloud integration for IoT devices.

PROJECTS

Smart Water Level Monitoring System

Python — Arduino — Ultrasonic Sensor

- Developed an IoT-based water level monitoring system using an ultrasonic sensor and Aduino.

- Measured the water level in a tank .
- Helped monitor water levels remotely and reduce water overflow.

Smart Dustbin

ESP32 — Python — Ultrasonic Sensor

- Developed an automatic smart dustbin using an Arduino Uno.
- Used an ultrasonic sensor to detect nearby objects and automatically open the lid using a servo motor.
- Improved hygiene by enabling touch-free operation.

CERTIFICATIONS

- AWS Cloud Architecture – Infosys Foundation & ICT Academy
- Java Full Stack Development – Tata STRIVE
- SQL Certification

STRENGTHS

- Problem Solving
- Analytical Thinking
- Quick Learner
- Team Collaboration
- Communication Skills
- Adaptability

LANGUAGES

English
Tamil

CAREER OBJECTIVE

To start my career as an IoT Developer where I can apply my knowledge of embedded systems, IoT technologies, and Python programming to build innovative smart solutions while continuously improving my technical skills and contributing to impactful projects.