

SWETHALATHA SIVAKUMAR

Software and IoT Engineering Aspirant

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Professional Profile

Computer Science and Engineering (IoT) undergraduate with strong capability in software development, embedded systems, and applied IoT solutions. Proven experience building GPS-enabled automation systems, AI-based applications, and web platforms. IEEE-published researcher and patent contributor with a disciplined engineering approach, strong problem-solving skills, and effective collaboration abilities. Seeking entry-level roles in software engineering or IoT product development.

Education

Bachelor of Engineering in Computer Science and Engineering (IoT)

2023 – 2027

Nandha Engineering College

CGPA: 8.9

Higher Secondary Education

K.V Higher Secondary and CBSE School

82%

Core Skills

Programming Languages: C, C++, Python, Java

Web Technologies: HTML, CSS, JavaScript

IoT and Embedded Systems: Arduino, Raspberry Pi, Sensors, GPS Modules

Tools: Git, Visual Studio Code

Professional Strengths: Analytical Thinking, Problem Solving, Team Collaboration

Selected Projects

Smart Retractable Speed Breaker System with GPS

- Built a GPS-based traffic automation system to detect emergency vehicles and dynamically control speed breakers.
- Improved emergency response time and road safety through real-time system execution.

AI Personalized Chatbot

- Developed an AI-powered chatbot capable of delivering personalized and context-aware responses.
- Implemented frontend-backend integration to ensure smooth conversational flow.

Alcohol Detection and Engine Locking System

- Engineered an embedded safety system to detect alcohol consumption and automatically disable vehicle ignition.
- Integrated GPS tracking to enable real-time vehicle location monitoring.

Weather Prediction Web Application

- Developed a responsive web application providing real-time weather data using external APIs.

Research and Intellectual Contributions

IEEE Conference Paper: Smart Retractable Speed Breaker System with GPS Module, ICESCS 2025 (IEEE Xplore).

International Conference Paper: Intelligent Face Attendance System using Deep Learning.

Patent: EMG Silent Speech and Biometric Control System for Smart IoT Devices.

Industry Experience

Inaiyam Innovations — Tech Associate Intern
collaborative engineering workflows.

Oct – Jan Supported system-level development tasks and

AmyPo Technologies — Intern 2024 – 2025 Contributed to real-time IoT and software development initiatives.

Achievements

- Best All-Girls Team Award, PEC HACKS 3.0 (35,000 cash prize).
- Second Place, Greek Language Coding Competition, MIT Chennai.
- Second Place, Code Connection, Kongu Engineering College, Erode.