

# SWETHALATHA SIVAKUMAR

## Software and IoT Engineering Aspirant

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### Professional Profile

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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

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<b>Bachelor of Engineering in Computer Science and Engineering (IoT)</b>	2023 – 2027
Nandha Engineering College	CGPA: 8.9

<b>Higher Secondary Education</b>	
K.V Higher Secondary and CBSE School	82%

### Core Skills

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**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

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#### 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

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**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

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<b>Inaiyam Innovations</b> — Tech Associate Intern	Oct – Jan Supported system-level development tasks and collaborative engineering workflows.
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<b>AmyPo Technologies</b> — Intern	2024 – 2025 Contributed to real-time IoT and software development initiatives.
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### Achievements

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- 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.