**Thelagan Varadharaj**

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**EDUCATION**

Bachelor’s degree in Electronics and Communication (Advanced Communication Technology) CGPA – 8.6

Chennai Institute of Technology, Chennai, Tamil Nadu (2023 – Present)

**INTERNSHIP EXPERIENCE**

**Mechimed Technologies Pvt Lmt**

Project intern on android app and esp32 integration (May 2024 – July 2024)

* Developed an android application to display the readings of IR sensor transmitted through ESP32 microcontroller.

**Serenibots Innovation**

Engineer on LLM development and hardware integration (Nov 2024 – Dec 2024)

* Developed the main LLM and AI logic of the product LUNA and integrated hardware sensors into LUNA.

**Mruby/c Research Internship**

* Learnt and developed embedded projects using Mruby/C using PIC32 Rboard. (May 2025 – July 2025)

**PROJECTS**

FireScout – Fire classification device

* Throwable 3d printed device to detect and classify fire into 5 classes of fire.
* Used 3 layer of air extraction – separation – steam lining, then multi sensor-based fire classification.

Li-Fi based text sharing application

* Built a Kotlin application where mobile’s in-built camera and torch is used for text sharing.
* Safe and fast and internet free communication using in built mobile components.

Geo-Larm Application

* Built a Kotlin application which is used for travelling purposes, where alarm is used based on location.
* Used geofencing and google maps API for location-based alarm. Alarm triggers within 200m radius of selected location.

Medical Kiosk Robot – LLM based

* Designed and built a kiosk type robot that can analyse and prescribe to patients using LLM based logic.
* Conversation capable kiosk robot for easy and preliminary medical diagnosis.

**CERTIFICATIONS**

* Web development using HTML, CSS, JS – Udemy Certification
* Introduction to Cybersecurity, Cybersecurity Essentials – Cisco Networking Academy
* Applied Generative AI and Natural Language Processing – Udemy Certification
* Introduction to Industrial 4.0 – NPTEL certification

**SKILLS**

**Programming Languages:** Python, Java, C, JavaScript, ReactJS

**EDA Tools:** KiCad, Allegro PCB design flow, Fusion 360

**ECE Skills:** SPICE simulations, Audio Signals processing

**Other Skills:** Arduino, Raspberry Pi, Basic pen testing tools, UI/UX, Blender

**ACHIEVEMENTS**

* Qualified First round of **Electrothon** 2024