

# Arun Karthick N

Madurai, Tamil Nadu | [arunkarthickn27@gmail.com](mailto:arunkarthickn27@gmail.com) | +91 7200401122

[linkedin.com/in/arun-karthick-n](https://www.linkedin.com/in/arun-karthick-n) | [arun-karthick-n.github.io/Portfolio](https://arun-karthick-n.github.io/Portfolio) | [github.com/Arun-Karthick-N](https://github.com/Arun-Karthick-N)

## Education

<b>K.L.N. College of Engineering</b> <ul style="list-style-type: none"><li>BE Electronics and Communication (Honours) with <b>CGPA: 8.41/10</b></li></ul>	Oct 2021 – Apr 2025
<b>AKNU S. Sundar Matric Higher Secondary School</b> <ul style="list-style-type: none"><li>HSC in Computer Science – <b>Percentage: 89.78</b></li></ul>	Jun 2020 – May 2021
<b>AKNU S. Sundar Matric Higher Secondary School</b> <ul style="list-style-type: none"><li>SSLC – <b>Percentage: 88.60</b></li></ul>	Jun 2018 – Mar 2019

## Skills

**Languages & Web Technologies:** C, C++, Python, Java, SQL, HTML, CSS

**Developer Tools:** VS Code, Android Studio, MySQL, AWS, Google Colab, Git, GitHub, Supabase, Hugging Face

**Operating Systems:** Linux, Windows

**SD Concepts:** Object-Oriented Programming, Data Structures and Algorithms, Agile-Scrum

## Professional Experience

<b>Project Intern</b> , K.L.N Innovation & Research Park – Sivagangai, Tamil Nadu	Mar – Dec 2023
<b>Laser Transmitter &amp; Receiver Signal Coordination System for Land Leveling Unit</b>	
<ul style="list-style-type: none"><li>Engineered a Raspberry Pi-based system in MicroPython for real-time elevation profiling with &lt;2 cm accuracy, boosting land leveling efficiency for farmers by 25%. Optimized sensor networks and IoT data pipelines, enhancing the precision and performance of the embedded system.</li></ul>	

## Projects

<b>Personal Portfolio Website</b>	Aug 2025
<ul style="list-style-type: none"><li>Designed and deployed a fully responsive portfolio website featuring a clean, modern UI and intuitive navigation. website achieved a Google PageSpeed score of 99/100, demonstrating performance optimization. Link: <a href="https://arun-karthick-n.github.io/Portfolio">arun-karthick-n.github.io/Portfolio</a></li></ul>	
<b>SmartAgroBiz: ML-Powered Farming and E-Commerce Solution</b>	May 2025
<ul style="list-style-type: none"><li>Built a cross-platform e-commerce mobile app (Flutter + Supabase) that supported real-time product listings and order management for 50+ simulated users, and implemented an ML crop recommendation model achieving 89% prediction accuracy.</li></ul>	
<b>IoT Enabled Air Quality Monitoring System</b>	May 2024
<ul style="list-style-type: none"><li>Built an IoT-enabled air quality monitoring system to track 150+ pollutants in real time, deployed a dashboard and call alerts that improved hazard detection by 40%.</li></ul>	
<b>Smart Energy Management System Using IoT</b>	Feb 2024
<ul style="list-style-type: none"><li>Developed a real-time IoT-based energy management system using Raspberry Pi 3, reducing energy consumption by 15% and facilitating 100% remote monitoring across 5+ household devices.</li></ul>	
<b>Automatic Plant Irrigation System</b>	Mar 2022
<ul style="list-style-type: none"><li>Engineered an Arduino-based irrigation system that reduced water use by 20-30% while maintaining optimal soil moisture, improving crop health for 10+ test plants.</li></ul>	

## Certifications

- C for Everyone: Programming Fundamentals** (University of California, Coursera)
- Python** (Spoken Tutorial, IIT Bombay)
- TCS iON Career Edge - Young Professional** (TCS iON)
- Cybersecurity Essentials** (ICT Academy)
- Introduction to Industry 4.0 and Industrial Internet of Things** (NPTEL)