

Arun Karthick N

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in arun-karthick-n | 🌐 Portfolio | 🔄 Arun-Karthick-N

Education

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

Skills

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

Developer Tools: VS Code, Android Studio, Google Colab, Git, Github

Operating Systems: Linux, Windows

SD Concepts: Object Oriented Programming, Data Structure and Algorithm, Agile-Scrum

Soft Skills: Communication, Team Collaboration, Time Management, Critical Thinking, Attention to Detail

Internship

Project Intern , K.L.N Innovation & Research Park – Sivagangai, Tamil Nadu	Mar – Dec 2023
Laser Transmitter & Receiver Signal Coordination System for Land Leveling Unit	
<ul style="list-style-type: none">• Collaborated with a team of six to engineer a MicroPython-based system on Raspberry Pi that delivers fast, precise real-time elevation profiling, significantly enhancing operational efficiency for farmers• Integrated sensor networks and optimized data processing pipelines, enhancing overall IoT and embedded system performance.	

Projects

SmartAgroBiz: ML-Powered Farming and E Commerce Solution	May 2025
<ul style="list-style-type: none">• Built a cross-platform e-commerce mobile app using Flutter and Supabase to connect farmers with local buyers, enabling real-time product listing and order management.• Developed a Random Forest-based model using historical district-level data to recommend region-specific crops by predicting yield, saturation, and profitability metrics	
IoT Enabled Air Quality Monitoring System	May 2024
<ul style="list-style-type: none">• Developed software solutions employing Embedded C, enhancing the functionality of a real-time air quality monitoring system and achieving reliable data logging at intervals of every five seconds.• Designed a cloud-based alert system to notify users about critical levels of air quality.	
Smart Energy Management System Using IoT	Feb 2024
<ul style="list-style-type: none">• Engineered a real-time energy management solution using Raspberry Pi 3, integrating advanced sensors and wireless on/off controls for seamless home automation.• Designed an intuitive dashboard with Embedded C to deliver actionable energy analytics and enable remote device management.	

Certificates

- **C for Everyone: Programming Fundamentals** (University of California)
- **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)
- **Learnathon 2022** (ICT Academy)