POOVANNAN VP

+916381 595019   Tamilnadu, India

poovannanpalanisamy00@gmail.com   linkedin.com/in/poovannan-vp   github.com/poovannan-vp

SUMMARY

As an innovative and self-motivated software enthusiast, I bring hands-on experience in Python, coupled with a strong drive to continuously learn and adapt to new technologies like React for modern web and app development. I thrive on solving real-world problems, often through hackathons, and am dedicated to crafting practical, impactful solutions.

EDUCATION

B.E. Electrical and Electronics Engineering	Graduating May 2026
Rajalakshmi Engineering College, Chennai (Affiliated to Anna University, Chennai)	8.13 CGPA
Goverment Boys Higher Secondary School, Sivagiri, Erode **HSC** (Tamilnadu State Board)	2020-2022 84.66 %
Goverment High School, Nagappalayam, Erode **SSLC** (Tamilnadu State Board)	2015-2020 85.60 %

TECHNICAL SKILLS

Programming	: Python, C(basics), JavaScript
Web Technologies	: HTML, CSS, Bootstrap, ReactJs, ReactNative
Backend & Database	: Firebase (Firestore, Auth)
Internet of Things	: Arduino, ESP32
Tools & Platforms	: Git & GitHub, VS Code, Expo Go, Postman, MATLAB (Script)
Machine Learning & AI	: TensorFlow Lite, Mediapipe, Model Integration, Python-based ML (Basics)

ACHIEVEMENTS

- **SIH 2024 Finalist - Ministry of ISRO (Team of 6)**
  - Developed Aerial Inspect, utilizing Cartosat satellite data to create 3D city models for simulating building shadows, solar irradiation, and BIPV (Building-Integrated Photovoltaics) potential assessment. (Reasearch Analyst)
  - Enabled users to visualize real-time shadows, heatmaps, and solar potential, with time-lapse features to track seasonal changes and forecast energy savings.(Frontend developer and Ml model)
- **Top 6 in Hackmageddon - 24 hr Hackthon (Team of 5)**
  - Contributed to HydroSense, an IoT-based solution for improving non-revenue water management in India.

PROJECT WORKS

- **MediPath – AI-Based Transplant Patient Care Platform**
  - Built a cross-platform app and web dashboard using React Native, Firebase, and Tailwind CSS for transplant patient monitoring.
  - Integrated AI-based medicine intake detection using camera (Mediapipe + TensorFlow Lite) with real-time logging to Firestore.
  - Enabled features like vitals tracking, symptom reporting, diet plans, emergency alerts, and doctor-patient interaction.
- **Faculty Portfolio Website – Dr. A. Nazar Ali**
  - Developed a responsive academic portfolio website using React.js to showcase Dr. A. Nazar Ali's professional profile, research, and achievements.
  - Structured dynamic components for research papers, honors, and publications for easy updates and maintainability.
  - Designed an intuitive UI with smooth navigation to ensure accessibility across all devices.

- **FallSpy – IoT-Based Fall Detection & Health Monitoring System**
  - Developed a wearable IoT device using ESP32 integrated with MAX30102 (heart rate sensor), GPS, and GSM module for real-time health monitoring and emergency location tracking.
  - Ensured secure, real-time data transmission to Firebase for storage and alert management.
  - Built a responsive web dashboard using React and Firebase to visualize patient vitals, track fall events, and send emergency alerts to caregivers instantly.
- **Renewify**
  - Worked on Renewify, an app that serves as an aggregator between solar panel installation companiesand consumers, Aimed at promoting renewable energy adoption.
  - Developed IoT-based solutions for real-time monitoring of solar panel performance, facilitating better management and maintenance for users. (Arduino, ESP 32 with firebase)
- **HydroSense**
  - Developed and integrated IoT-based solutions for HydroSense, a web app designed to manage non-revenue water (NRW) in India by improving water distribution and leakage detection.(ESP32 , Waterflow sensor with firebase)

CERTIFICATIONS

- **Automation Pro II – Workato Academy**
  - Issued: July 2025 | Valid Until: July 2027
  - Demonstrated expertise in automation using Workato, including Conditional Actions, Repeat Actions, Variables, and Lookup Tables.
- **Building Modern Web Applications with MERN Stack**
  - Issued by: Edunet Foundation & AICTE (Next Gen Employability Program) — 2024–25
  - Completed a hands-on course focused on modern web development using MongoDB, Express.js, React.js, and Node.js.

ACTIVITIES

- Mentored juniors in the TANMCAM Girls Hackathon 2025, guiding them in building health-tech solutions based on the FallSpy system.
- Chairperson, IEEE PES Student Branch – REC: Currently leading the IEEE PES student branch, overseeing strategic planning, event coordination, and team leadership.
- HR Manager (1 year) at EDC (Entrepreneur Development Cell): Managed recruitment and team coordination to support entrepreneurial initiatives.

PERSONAL DETAILS

Name: Poovannan V P
Date of Birth: 23 - Septemeber - 2004
Nationality: Indian
Languages Known: Tamil(RWS), English(RWS)
Permanent Address: Palanikadu, Ollapalayam , Vilakethi(pos), Erode -638 109