Lakshmanan Palaniappan | Software Developer

📍128, Mothilal street, Kandanur ✉lakshmananletchu8@gmail.com

📞+91 9363679092   in lakshmanan-palaniappan ○ lakshmanan-palaniappan ◐ Lakshmanan-LeetCode

SUMMARY

Software Developer with a vision to build scalable, cross-platform applications and deliver rich user experiences. Proficient in **state management** patterns like **Provider** for creating efficient and maintainable **Flutter apps**. Skilled in integrating **frontend and backend** technologies using **Flutter, Express.js, and SQL** for data-driven solutions. Experienced **in merging hardware and software** through **IoT and automation** projects to drive innovation. Strong problem-solving abilities, collaborative mindset, and eager to contribute technical expertise to an innovative team.

SKILLS

- **Languages:** Dart, SQL, HTML, CSS, JavaScript, Python, Java
- **Frameworks:** Flutter, Express.js, Node.js
- **Databases:** Microsoft SQL Server (using SSMS), Firebase
- **Version Control:** Git, GitHub
- **Soft Skills:** Attention to detail, Effective communication, Time management, Teamwork, Team management, Adaptability, and Continuous learning.

EXPERIENCE

GB TECH CORP | Django Developer Intern (June 2025 – July 2025)

- Developed an **Event Management System** using Django framework, integrating **SQL Server (SSMS)** for efficient data storage and management.
- Implemented user registration, event scheduling, and ticket management features to streamline event operations.
- Integrated **mailing functionality** for event notifications, confirmations, and reminders.
- Designed and optimized database schemas, queries, and stored procedures in SSMS to improve performance.
- Collaborated with the team to ensure smooth deployment and debugging of backend modules.
- Strengthened skills in **Python, Django ORM, SQL Server, and email automation** through hands-on project work.

EDUCATION

Mount Zion College of Engineering and Technology

Bachelor of Engineering(CSE)   November 2022 - Present

- **CGPA:8.10**

Alagappa Matriculation Higher Secondary School-HSC   June 2021 – March 2022

Computer-Science Maths

- **82 Percentage**

CERTIFICATION COURSES

Flutter Development | Guvi
Naan Mudhalvan Robotics Process Automation | UIPath

PROJECTS

Autocart-The Future of Shopping   April 2024 - June 2024
Technologies Used: Flutter, Firebase, Arduino UNO

- Developed an **autonomous shopping cart** with **real-time product scanning** and a **mobile app** for easy payments and digital billing.
- Utilized **YOLOv4 Computer Vision** and **Raspberry Pi** for autonomous navigation and obstacle avoidance.
- Created a seamless shopping experience, reducing checkout time and improving store efficiency.

Smart EVM Blockchain   September 2024 - November 2024

Technologies Used: ESP32, Flutter, Ganache Blockchain
- Developed a **secure electronic voting machine (EVM)** using **ESP32** and physical buttons for casting votes.
- Integrated **blockchain technology** to ensure transparent and tamper-proof vote storage.
- Designed a **Flutter**-based Web application for real-time **vote monitoring and result visualization.**

Smart Insulin Delivery System   April 2025 – June 2025

Technologies Used: ESP8266, Firebase, Flutter, Servo Motor
- Built a connected insulin pump with real-time delivery control, refill tracking, and activity logging to **Firebase**.
- Developed a **Flutter app** for remote monitoring and **bolus delivery** management.
- **Automated insulin dosing** using servo-controlled mechanisms with timestamped logs and safety checks.

IV Bag Monitoring System   April 2025 – May 2025

Technologies Used: ESP32, Load Cell, LCD, Buzzer, Firebase, Flutter, HX711
- Designed a smart IV bag monitor using a **load cell** to track fluid levels in real time.
- **Integrated LCD** for local display and **buzzer alerts** when fluid drops below threshold.
- Built a **Flutter app** for remote monitoring and timely low-level **notifications via Firebase.**

IntelliHome   February 2023 - April 2023

- Developed **IntelliHome**, an **IoT-based project** to control home appliances remotely.
- Built a **Flutter app** for seamless control of appliances from anywhere.
- Integrated **ESP8266** to enable wireless communication and smart home automation

Event Manager   June 2025 - July 2025

- Built an Event Management System using **Django** with **SQL Server (SSMS)** as the backend.
- Implemented **admin features** to create, modify, and remove events, and track participant registrations.
- Enabled **user registration with email confirmation** and automated notifications for event updates.
- Designed efficient database schemas and queries to **manage events and participants** effectively.

ACHIEVEMENTS

- Winner of **"IEEE Ignite project expo"** organized by **Kalasalingam University**   17th March 2025
- Winner of **"Zenith2K25 project expo"** organized by **K.Ramakrishnan College**   29th April 2025