Sai Preetham Koyyala

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Skills

- JavaScript | C++ | Embedded C | Firebase | Node | Express | React | jQuery | NoSQL | Git | Dart | Tailwind Css | AWS IoT | Python | NB-IoT
- PlatformIO | Cloud Computing | Arduino | ESP-IDF | React Native | MQTT | HTTP/HTTPS | InfluxDB | Docker | ThingsBoard | Azure IoT
- Flutter | Android Studio | IoT | Frontend | Backend | Full-Stack | English, Telugu, Hindi, Marathi – *All professional proficiency or above*

Experience

Freelancer — **Fiverr** — **07/2021 - Current**

- **IoT Developer:** Designing and implementing innovative IoT solutions for various applications, showcasing expertise in sensor integration, wireless communication, cloud platform integration, and firmware development.

Blogger — **Circuit of Things** — **06/2023 - Hobbies**

- As a passionate writer and blogger on circuitofthings.com, I explore the exciting world of IoT, offering insights into sensor technologies, project inspiration, and practical implementation ideas, all the while fueling my own curiosity and contributing to a community of like-minded IoT enthusiasts.

Co-founder — **LMS The Skypedia** — *Hyderabad* — **12/2022 - 04/2023**

- Co-founded LMS TheSkypedia, a pioneering educational technology venture committed to transforming learning experiences through digital innovation.
- Managed a team of developers and ensured the seamless integration of user-friendly features into the Learning Management System (LMS).

Flutter App Developer, Freelance — **Shubhithas Energy Solutions** — *Warangal* — **07/2022 - 11/2022**

- Developed an end-to-end mobile application based on energy bills for Shubhitha's Energy Solutions to generate accurate solar panels, inverters, and installation quotations.
- This application calculates precise solar panel and inverter equipment requirements, along with installation costs, facilitating informed decisions. & Uses Firebase as the backend technology, ensuring secure, scalable, and real-time data management.
- Managed the entire development lifecycle, demonstrating strong multitasking and full-stack skills.
- Developed a dual-section platform to cater to both users and employees. Employees were able to conduct site surveys, receive installation instructions, and communicate with each other effortlessly through the employee section.
- A web-based admin panel was developed to oversee and manage employee and user requests, streamlining operations and improving customer service. & Enhanced user experience by using Flutter's capabilities to design smooth transitions and responsive layouts.
- Assured the application's stability, scalability, and ease of maintenance by committing to clean and efficient code practices.
- Improved communication and collaboration between users and employees, resulting in a more efficient and cohesive solar panel installation.
- Achieved successful completion of the project within the stipulated timeframe, resulting in an application that streamlined operations, empowered users, and boosted business growth.

Web Developer, Freelance — **V Liv In Bamboo** — *Hyderabad* — **03/2022 - 05/2022**

- Develop and optimize compelling online shopping destinations for vlivinbamboo.com using WordPress, merging aesthetics and functional prowess to produce engaging online shopping destinations that drive conversions and customer satisfaction.

Education

Bachelor of Technology — **Joginpally B.R. Engineering college** — *Hyderabad* — **2020 - 2023**

- Major in Computer Science Engineering

Diploma — **Christu Jyothi Institute of Technology & Science** — *Jangaon* — **2017 - 2020**

- Electrical Electronics Engineering

Projects

- **Wearable IOT based Real Time Health Monitoring System:** ESP32 health tracking system with a pulse sensor, an ECG sensor, a body temperature sensor, a blood pressure sensor, and ThingSpeak integration. Link to Project Demo **(04/2023)**
- **Electric Vehicle Battery Management System (EV BMS) with Charge Monitoring & Fire Protection**: Developed using Arduino Nano, ensuring efficient battery management, real-time charging monitoring, and enhanced safety measures against potential fire risks. Link to Project Demo **(03/2023)**
- **EV BMS with Charge Monitoring & Fire Protection using IoT:** ESP32-based and IoT-based system combining advanced battery management, real-time charging monitoring, and integrated fire protection mechanisms. Link to Project Demo **(12/2018)**

- **Smart Agriculture Irrigation System:** Developed an efficient irrigation solution utilizing ESP32, rain sensors, relays, soil moisture sensors, and a buzzer for optimal crop cultivation. Link to Project Demo **(11/2022)**
- **Real-Time Location Tracking System:** Developed using Arduino MKR NB 1500, MKR GPS Shield, and NB-IoT technology, enabling seamless integration with Thingsboard for precise location monitoring. Link to Project Demo **(09/2022)**
- **Hail Blood Donation**: Developed a responsive blood donation management platform using React.js and Firebase, facilitating seamless donor registration and administration. Link to Project Demo**(07/2021)**
- **Home Automation using Nodemcu**: Designer of a smart home control system leveraging ESP32/Nodemcu microcontroller, enabling remote device management. Link to Project Demo **(12/2018)**

Others

- **Tech Equinox Participation:** Engaged in a national-level IoT hackathon, where participants were tasked with addressing a specific challenge. During the event, my team and I tackled the "Smart Agriculture" problem statement, aiming to develop a precision farming system that employs sensors to gather essential data on soil conditions, crop growth, and weather patterns. Within a 30-hour time frame, we successfully conceptualized, designed, and presented an innovative solution to optimize agricultural yield and minimize wastage.