



Mahankali Surya Tej

Sr.IoT Developer

Profile

IoT Developer with over 2 years of extensive experience on IoT Application development end to end .Hand on experience and solid knowledge on boards like Raspberry Pi 3 B+,ESP32,ESP8266,Arduino Mega 2560 .

Ample amount of knowledge on communication protocols like MQTT,HTTP, HTTPS and Web Sockets. Expertise in cloud based IOT solutions.

Strong Knowledge on Communications like LoRa,RF Communication,Wi-Fi,ZigBee ,Bluetooth, GPRS etc.

Rich knowledge on IBM cloud which include IBM Watson IoT platform, Node-red,IBM Cognitive Services, Artificial Intelligence Services,Building API's, Developed Chat Bots using IBM Watson Assistant and built various applications from those services.

Good Knowledge on building Machine Learning Models and deploying them in Cloud providers like IBM Cloud. Along with IBM cloud had Extensive knowledge on AWS (Lambda,AWS IoT,API gateway,DynamoDB,SNS Service,IAM) .

Strong Experience in software development with python using Anaconda .

Hands on experience in Computer Vision ,Object Detection and Recognition using opencv and developed various projects on Raspberry pi using opencv.

Good analytical ,problem solving,debugging,documentation,and communication skills.

Employment History

Sr.IoT Developer at SMARTBRIDGE EDUCATIONAL SERVICES PRIVATE LIMITED, India

April 2017 – Present

IoT Intern at SMARTBRIDGE EDUCATIONAL SERVICES PRIVATE LIMITED, Hyderabad

November 2016 – March 2017

Technical Expertise

- Programming Languages-Python,C,Embedded C,Java
- OS-Windows,Linux,Mac
- Communication technologies: Bluetooth, Wi-Fi, Zigbee,LoRa,RF.
- Communication Protocols: HTTP, MQTT.
- Software: Arduino IDE, Atom, MIT App Inventor,Anaconda,Eclipse IDE,
- Cloud Platforms: Thingspeak,IBM cloud, AWS cloud.
- Notification Servers: IFTTT, Pushingbox Notifier, Msg91.
- Development boards: Arduino Uno ,Arduino Nano, Arduino Mega, Node Mcu (ESP8266),Raspberry Pi 3 B+,ESP32,Raspberry Pi Zero, Pycom .
- Applications: MIT app inventor,HTML

Details

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Date / Place of birth

11-May-1994

Khammam

Nationality

Indian

Links

www.linkedin.com/in/mahankali-surya-tej

Skills

Java

Python

C

Embedded C

Professional Experience

Smart Home Gateway

Device – Gateway – Cloud – Application (D-G-C-A) deployment model. The devices (D1-D4) will interact with gateway over different communication technologies, (BLE, Wi-Fi, Zigbee and RF). The gateway will have the capability to consolidate different communication technologies. All the devices can be monitored & controlled from Web/Mobile app. The platform will provide both HTTP & MQTT endpoints for gateway & application interface.

Medikit

An IoT healthcare system is developed for patients, hospitals and care centers that regularly supervise the health condition and checks whether the patient has taken the prescribed medicine. The information available on the Cloud can be supervised by the doctor by using a Mobile application. The mobile application also supports scheduling of medicines as per doctor's prescription in the medical box.

Education

Master's Degree, Sreenidi Institute of Science & Technology, Hyderabad

2015 – 2018

Secured 9.0 CGPA in the field of Digital Systems & Computer Electronics

Bachelors's Degree, CMR college of Engineering & Technology, Hyderabad

2011 – 2015

Secured 70% as aggregate in the branch of Electronics & Communication

Board of Intermediate, NRI Junior College, Vijayawada

2009 – 2011

Secured 90% in the stream of MPC

Matriculation, Bps&Jc, Bhadrachalam

1997 – 2009