Deepak Radhakrishnan

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Profile Summary

Experienced Software Engineer with a demonstrated history of working in the Information Technology & Services industry. Skilled in Python, AI, ML ,C, Raspberry Pi, Java,C# and IoT. Strong professional with a Diploma focused in Electronics from NTTF (Nettur Technical Training Foundation).

Work experience

Razrators   15 APR 2015 — 17 SEP 2017
Embedded Engineer

- R&D Associate
- Young IT Professional Coimbatore Chapter 2017 for VIBO an AI Based Robot

Razrators   17 SEP 2017 — 16 JAN 2019
Software Engineer

- Python Developer
- IoT Device Integrator expert

Sanesquare Technologies   June 17 2019 — Jan 4 2020
Software Engineer

•Team Lead
•Hybrid App Developer

Razrators   15 March 2020 — 30 Dec 2020
Software Engineer

- Energy Monitoring System - Team Lead
- Meeting Room Automation - Team Lead

Contract- Abhidaksha Globale   1 Aug 2020 — Present
Head IoT & Robotics

- Smart Mask to prevent shutdown due to covid - IoT Part

Codepixa(Razrators)   1 Jan 2021 — Present
Software Engineer

Team Lead : Orchid ERP Project , Walkin Ecom Project , Maayan Infotech Web Backend Development

Skills

CODING SKILLS

- Python
- Embedded C
- Java
- XOJO
- C#

FRAMEWORKS

- Django
- Odoo
- Flask
- Dash
- .Net

DATABASE

- PostgreSQL
- MongoDB
- My SQL
- Sqlite3
- MS SQL

OTHER SKILLS

- HTML , CSS , JS basics
- Dashboard Development with Plotly Dash
- Embedded Programming
- Sensor Integration
- REST API
- Socket Programming
- Hybrid Mobile Application Development
- AI , ML basics
- Open CV Computer Vision
- Linux Servers
- Apache , Nginx , Apache Spark
- Web hosting , Maintenance

PROTOCOLS

- USB , UART , SPI , I2C , MQTT , CoAP , CAN

Projects

Orchid ERP
Orchid ERP Project developed on top of odoo community framework. Customers can book appointments to their favourite Doctors and take advices through mobile application developed in Flutter. ERP software backend is powered with python , front end with xml , scss and js , database used here is postgres. XML-RPC is used for API creation. This software manages Doctors , Nurses , Patients , Invoices , Accounts , Reports , Leave and Attendance.

Water Can Monitoring - Razrators

Water Can Monitoring project is to get the real time water usage in every offices/institutions for a water can supplying agency located in Bangalore . This project eliminated the manual human effort to call the agency whenever the water can is empty . Agency will get the notification when the Can need to be replaced , water usages in seasons , so that they can plan the delivery , live map which helps to cover the offices in a specific route which saves fuel as well as money . Dashboard is developed using Django Dash and js . ESP32 and a load cell used to collect weight of water can and communicated using MQTT Protocol over wifi.

Smart Mask and Kiosk to Prevent shutdown due to covid - Head of Robotics & IoT - Abhidaksha Globale

Employee attendance , temperature readings and oximeter reading made automated using a Kiosk and Smart Mask Embedded System is developed on top of **ARM architecture** and Web application is developed using **Django Framework** . Got recognised by **India SME Health and Immunity Expo** .

Meeting Room Automation - Team Lead

Meeting room automation project made meeting room booking and managing the devices easily. Web app is developed using Django and Mobile application is developed using Xamarin Forms. Django-MQTT used to communicate with devices.

Energy Monitoring System -Team Lead

Energy monitoring is developed to analyse the energy usage and automated billing and invoicing to companies inside a business park . Web application is developed using Django and database used is PostgreSQL . Smart Meters used here is L&T and Siemens .

Pocket Mall - Software Engineer - Freelancing

Django Framework Based Web application and **Xamarin based** Hybrid Mobile Application developed for a middle east client .

CRM Application - Software Engineer- Sanesquare Technologies

Xamarin Based CRM Application is made for a client in Dubai.

Factory Automation Software(C#) - Jr.Developer -Razrators

C# Based application is developed for an Italian client for automating their food industry. They can add recipe in the software and the software will communicate to the PLC with trough KEPSERVER and modbus and instruct the PLC to work accordingly .

VIBO an AI based smart Assistant — Team Lead

Vibo is an artificial intelligence powered personal assistant robot. It is specially made for aged peoples who is undergoing physiotherapy treatments. Vibo can learn Yoga,Physiotherapy , Dance , etc using its camera and Lidar sensors attached to it.Vibo can teach Yoga or Physiotherapy to people by exactly imitating the learned movements. Imitation learning algorithm is used to fetch the movements and it will be stored as topics. Vibo is embedded with amazon alexa , so that it can communicate with people.

Rock Crawler Educational Robot Kit — Team Lead

Rock Crawler Robots are developed for a company located in Kerala for the educational purpose. The robot is capable for easy moving in rough terrains and rocky areas. Robots has a wireless camera and control systems. Robot can pick and place objects with a robotic arm and sense fire,temperature,humidity and altitude.

Certifications & Achievements

- Certification in Python Data Science
- Certification in Robotics
- CSI Young IT Professional coimbatore chapter 2017 award
- Certification in Django Full Stack

Education

Diploma In Electronics   June 2012 — April 2015
NEC NTTF BANGALORE

Graduated with GPA 8.0

Integrated MCA   DEC 2019 — Present
IGNOU

Personal Information

Name :DEEPAK R
Date of Birth :17-10-1994
Sex:Male
Marital Status:Single
Address:Karthika(ho),Purameri(po),Vatakara
 Kozhikode,Kerala 673503
Father's Name:Radhakrishnan
Interests:Robotics,Vision Intelligence,Voice Assistance,Aeromodeling

References

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