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RITESH SONI

Objective

Wanted to grow and work in an environment where my skills can be upgraded and can use my practical knowledge for the development of the organization. Also, want to be the part of organization where I get new challenges and opportunities to learn & update my technical skills.

Professional Experience

Internet Of things (IOT Developer).

Cloud Stakes PVT LTD. 21 June 2022 - present

- Based on Client requirements Choose an IOT Platform.
- Select the hardware.
- Identify the communication Protocols.
- Setup the cloud storage.
- Build and deploy.

Internet Of things (IOT Developer).

Techiesms (YouTube studio). June 2021- 1 Apr 2022

- Performing research on the latest IOT and Hardware device.
- Performing research on DIY projects.
- Getting started new embedded hardware (Arduino, M5, espressif, etc...)
- Testing new PCBs.
- Implementing new projects based on IOT.
- Coding the programs for embedded hardware and make project work using C / C++ / Python.

Search Results Media. March 21 – December 21

- Create Python Dashboard Data processing and Data Visualization.
- Developing RESTful APIs with Python and Flask.
- Developed test automation framework script using python Selenium Web Driver.
- Prepare test cases for functional testing.
- Submit final report with test results.

Software Engineer (IOT/AI Developer).

SenseQue Technologies. December 19 – February 21

- Research on AI based projects to enhance company workflow.
- Gathering hardware for execution of project.
- Assisting interns in designing PCBs, hardware structure, etc.
- Python Programming for all the projects and hardware devices.
- Preparing test analysis and automated testing codes using python programming language.

Professional Certification

EMBEDDED SYSTEM AND IOT USING ARDUINO & NODE MCU	GUJARATTECHNOLOGICAL UNIVERSITY
IOT SEMINAR	WAY to WEB PVT.LTD
PCB DESIGN.	GUJARAT TECHNOLOGICAL UNIVERSITY
IOS Apps with AWS Mobile	LinkedIn Learning

Education

Bachelor of Computer Engineering (CGPA – 7.95)
Ahmedabad Institute of Technology, Ahmedabad. Gujarat Technical University. 2015-2020

Projects

Project work on IOT.

- Smart parking system: The project shows the design of an RFID based car parking system using Arduino UNO.
- Smart home using blynk app: Home Automation to control device, monitor sensor data and get a notification by some trigger action using hardware NodeMCU, Power Relay, Bulb and Some Wire.
- Smart home using google assistant (IFTTT): We can control smart home device including light, switches, and fan using google assistant.
- Smart dustbin: It will stop overflowing of dustbins along roadsides and localities as smart Dustbins are managed at real time.
- Basic Project on Raspberry pi: setting up the Pi Zero W for headless SSH access over WiFi using windows and create some project using GPIO.

Project work on AI (Computer Vision, Machine Learning).

- Basic Operation on Images: Image Processing.
- Character Recognition: recognize text in images using an open source tool called Tesseract and OpenCV.
- Face Recognition: - Recognize and manipulate faces from Python or from the command line with the world's simplest face recognition library. The model has an accuracy of 99.38%.
- Object Detection: -The TensorFlow Object Detection API is an open source framework built on top of TensorFlow that makes it easy to construct, train and deploy object detection models.
- Car Line Detection: - The images from the cameras are used to detect lanes, and detect vehicles. In the lane detection using some library cv2, NumPy and Matplotlib.
- Face mask Detection: - Wearing face masks that adequately cover the mouth and nose causes the error rate of some of the most widely used facial recognition algorithms using some library Cv2.CascadeClassifer, NumPy.

Project work on AR (Augmented reality, Internet of things).

- This is a simple project of Augment Reality with Internet of Things. My home office temperature and humidity is displayed on virtual dashboard which is augmented on top of a real cardboard. There is a virtual button which is augmented on the floor of the cardboard. On tap of the button, dashboard disappears.

Hobbies	Strengths
RESEARCH	TROUBLESHOOTING
OUTDOOR GAMES	LEARNING ATITTUDE
MOVIES	HARDWORKING
READING TECHNICAL STUFF	PUNCTUALITY