HEMANTH KRISHNA PEJJAI

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Sullurupeta, SPSR Nellore, Andhra Pradesh – 524124.

OBJECTIVE:

I am a passionate Networking Enthusiast, looking for a challenging role in a reputable organization to utilize my technical, database, computer networking, and management skills for the growth of the organization as well as to enhance my knowledge about new and emerging trends in IT.

TECHNICAL SKILLS:

- **Frontend** : HTML5, CSS, JavaScript
- **Database** : MySQL.
- **Networking Skills** : L2 & L3 **Cisco Switches** (2960, 3560, 3750) Configuration, **Cisco Routers** (2800 & 2900 series) Configuration, Network designing and Optical Fiber Splicing.
- **Networking Tools** : **NMAP, Cisco Packet Tracer, Wireshark**.
- **Networking Protocols** : **Static, RIPv2, EIGRP, NAT, STP, EtherChannel**.
- **Programming Languages** : C, Java, Python, Node.js
- **Version Control System** : Git, Git Hub.
- **Software Known** : **VMware Workstation, Oracle VirtualBox, PuTTY**.
- Familiar with OS like **Windows** & **Linux**, and **Software** like ANYSIS HFSS, Keil uVision 5, Embedded C Programming.

WORK EXPERIENCE:

1. **Seamless Communication Systems (P) Ltd, Chennai**
   Junior Service Engineer, (March 2024 – Till Date)
   I am working as a Junior Service Engineer in Seamless Communication Systems (P)Ltd, at **ISRO SDSC-SHAR** Sriharikota Range as our client, by managing **IP-EPABX** (*IP Based Electronic Private Automated Branch Exchange)* system and providing Telephony Services.
   Responsibilities:
   - Managing more than 10 Tadiran **IP-EPABX** systems of various versions like **ipx500, ipx800 and ipx4000**.
   - Managing links between nodes from BSNL (***E1 & PRI***).
   - Managing remote shelfs of a **remote exchange**.

- Managing **OFC** connections, **Optical Fiber Cable Splicing** and Routing.
- Managing remote exchange using **OFC** links.
- Configuring and maintaining **L2 & L3 Cisco switches**.
- Configuring and managing **IP-EPABX** and **Network Switches** using CLI.
- Configuring & Managing call billing software.
- Copying and Storing **Cisco IOS**, using **TFTP server**, and taking backups of the configuration files.
- Generating reports, records and site status and preventive maintenance on fortnight basis, and also taking backup of the **IP-EPABX**.
- Configuring and maintaining **IP Phones** through **MGCP and SIP** media gateways.
- Configuring and managing **MGCP and SIP** protocols using Audio Code gateways.
- **Troubleshooting** of **Hardware** and **Software** related issues of the Network.
- Solving the **PC & IP-EPABX** problems of various locations through remote administrator.
- Working experience on **Real Time Environment**.
- Basic **Hardware** Servicing of PC's and **Installation of OS** and **Software**.

PROJECTS:

Artificial Intelligence Based Specific Object Identification from Surveillance Video.

Tech Stack: *Python, YOLOv5, Jupyter Notebook, VS Code, Google Co-Laboratory, RoboFLow*.

- The Objective of this project is to detect the objects and classify them and to put the bounding boxes around the objects what we have said to select.
- The algorithm we have used here is **YOLO (*You Only Look Once*)**, Which is open source and the recent version of this algorithm is **YOLOv8**, but we have used the **YOLOv5** to avoid the compatibility and speed issues during the execution w.r.t our PC hardware.
- We have used the **YOLO** Pre Trained Model which has 80 different classes and which can detect and over 80 different objects. We made changes to the model like by training the model with additional classes ex. Knife, gun etc. and by default it recognizes all the objects in the frame, after making some changes our model identifies only specific objects which we have defined during the execution.
- The input can be an image or a video from local machine or hyperlink address of web files.
- We can also give the live webcam and test it in live. It works efficiently with some acceptable latency.

Design of Wearable Sensor Network Systems for IoT Connected Safety Applications.

Tech Stack: *Proteus Simulation Tool, Keil uVison5, Embedded C.*

- The Objective of this project is to achieve the design for a wearable device that can be used in the safety applications.
- Our design consists of two nodes that is environment node and human node. For example: The people working in mines goes to very deeper levels. The human node which can connected somewhere to the human body, keeps a track of the body **Temperature & SpO2 levels**. The environment node attached to the helmet, detects the temperature, **humidity & poisonous gases** in their environment.
- When the values of any sensors exceed the threshold value (Pre-Set) it should alert the people outside the mine for safety and rescue purpose.
- We have used the Proteus Simulation tool for overall simulation, and elements like (Arduino UNO, Temperature, Humidity and Gaseous sensors and Display).

EDUCATION:

- **Vel Tech University** Chennai, 2019 – 2023

  Electronics and Communication Engineering

  CGPA – 8.24 (***First Class with Honor***)

- **Sri Sathyam Jr College** Sullurupeta, 2017 – 2019

  Intermediate MPC, BIEAP

  CGPA – 9.63 (***First Class with Honor***)

- **Teja E.M High School** Sullurupeta, 2017

  10TH standard, BSEAP

  CGPA – 9.20 (***First Class with Honor***)

ACHIEVEMENTS:

- Won a **Gold medal** in International Open Karate Tournament held at Hyderabad, 2024.
- Won a **Gold medal** in National Jeet-Kun-do Tournament held at Mumbai, 2024.
- Certified in "**Cisco Packet Tracer**" by Cisco.
- Certified a course in "**Operating Systems and You: Become a Power User**" by Coursera.
- Participated in "**Cyber Security and Ethical Hacking Workshop**" at Vel Tech University.
- Certified in "**Beta Testing Program"** by CodeFobe**.**
- NSS Volunteer at Vel Tech University.

STRENGHS:

- Good Communication Skills.
- Problem solving ability.
- Attention to detail.
- Leadership Qualities.
- Self-Motivated.
- Adaptability and Ambiguity to learn new things.
- Innovative and Commitment at Works.

MY INTERESTS:

- Training Karate
- Coding
- Web browsing
- Sci-Fi Films
- Cricket, Basketball & Volleyball
- Chess & Carrom
- Gym & Cycling

PERSONAL DETAILS:

Name	:	Pejjai Hemanth Krishna
Father's Name	:	Pejjai Manohar Reddy
Date of Birth	:	14-09-2001
Gender	:	Male
Marital status	:	Unmarried
Nationality	:	Indian
Languages Known	:	English, Hindi, Telugu and Tamil
Address	:	H. No:176, Ganesh Colony, Attakanithippa (V), Pernadu (P), Sullurupeta (M), Tirupati (D), Andhra Pradesh – 524124

DECLARATION:

I hereby declare that all the above details furnished are true to the best of my knowledge.

Date: (P Hemanth Krishna)