NAGANANDA KENGARI JAGADEESH

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PROFESSIONAL EXPERIENCE

Network Engineer Intern Jun 2022 - Aug 2022

Spectrum, Charter Communications Denver, CO

- Created a internal tool to retrieve device history, including Jira ticket numbers and past hardware details using Python, resulting in 50% reduction in troubleshooting time by collaborating with cross-functional teams, software, and system Engineers.
- Implemented a new process in Return Material Authorization (RMA) procedures that saved nearly $2 million in penalties from multiple vendors during one quarter.
- Troubleshot optical devices from three different vendors, utilizing platforms such as Cisco CTC, Infinera DNA, Ciena Site Manager, and MCP to maintain the high availability of the network.
- Managed routing and switching issues on a variety of network devices from vendors including Cisco, Juniper, and Nokia.

Project Engineer Jul 2019 - Aug 2021

Wipro Limited Bangalore, India

- Responsible for managing the Network Infrastructure with over 200 Networking devices including switches, routers and WLC.
- Handled many protocol related issues by troubleshooting DHCP, TCP/IP, DNS ,Spanning tree Protocol and L3 network protocols.
- Assisted to implement and support the SNMP monitoring, NetFlow configuration, and other network configuration.
- Collaborated with Cisco in Network planning and implement new SD-WAN technology to optimize the network.
- Operated closely with two clients who had a Large-Scale Networks to identify business needs, including costs and other benefits by implementing computing solutions.
- Participated in on-call rotations and served as an escalation point for service incidents, demonstrating excellent communication .
- Effectively documented the work by creating the SOP,MOP, and Root Cause Analysis for the required incidents.

TECHNICAL SKILLS

Languages: Python, C, MATLAB, CSS/HTML, and C++.
Hardware: Switches and Routers(Cisco Catalysts 3700,6500,Nexus 9k,ISR 4k and Juniper EX2300-48P),WLC(Cisco 2504,Aruba 7220).
Software/Services: Cisco V-Manage, SolarWinds, ServiceNow, Cisco Prime Infrastructure, Wireshark, Splunk, AWS.
Key Skills: Network troubleshooting, STP, BGP, EIGRP, OSPF, ISIS, STP,MPLS, LLDP, DNS, DHCP, TCP/IP Networking, VLAN, VXLAN, VTP, FTP, SNMP, VPN, ACL, IPAM, LACP, VRRP,IPv4,IPv6, RADIUS and QOS,LAN,WAN.

EDUCATION

Master of Science in Computer Engineering Sep 2021 - May 2023

New Jersey Institute of Technology Newark,New Jersey

Relevant Coursework: Data Structures and Algorithms, Computer System Architecture, Computer Network Design and Analysis.

B.E in Electronics and Communication Jun 2015 - Jun 2019

S J B Institute of Technology Bangalore,Karnataka

Relevant Coursework: Operating Systems, Python Application, Object oriented programming with C++, Programming in C

PROJECTS

Hand-Gesture-Recognition using NVIDIA Jetson Nano

- Squeeze Net model was used from Torch vision, Deep learning technique was implemented using PyTorch with CUDA framework.
- This model was deployed in Jetson Nano (Linux based computer that can run multiple neural network for application in parallel) and was developed in python language.
- Business use case: Classification of hand gesture which can be used by scuba divers to communicate.

Weather data Monitor and Storing System

- Utilized ESP8266 and DHT11 to connect with AWS, enabling remote data storage and user alerts.
- Employed MQTT and TCP/IP protocols for seamless communication between hardware (ESP) and AWS.
- Leveraged AWS IoT, SNS, and DynamoDB services to facilitate data management and user notifications.
- Enhanced business case by proactively notifying users of abnormal temperature and humidity, enabling data-driven forecasting for optimized decision-making.

Automatic fault identification of microgrid using reinforcement learning model

- The Data was taken from the microgrid simulation model in Simulink where few noise data was introduced by the Tutor.
- The accuracy of 85% and 99% for the noisy data and noiseless data respectively Business use case: It an be used in micro-grid environment to identify type of fault and to fix faults even.

CERTIFICATES AND ACCOMPLISHMENTS

- Certified from Nvidia on Getting Started with AI on Jetson Nano. (Certificate ID:243ef7bb5e50479b9825502dc950cbed) .
- Certified from Udemy for completing the Cisco CCNA 200-301 course (Certificate No: UC-27ddd201-9525-4696-affb-0380545fa566)
- Received Second Honors Award as a top performer in Electrical and Computer Engineering (ECE) at NJIT.
- Certified from AWS on the completion of AWS Cloud Practitioner Essentials.
- Received Stay Green Champion award in Wipro for learning and deploying of the SD-WAN in client environment in very short time.