YASWANTH ALAM

Washington DC | yaswanthalam@gmail.com | (202)-621-4148 | LinkedIn

EDUCATION

The George Washington University, Washington, DC Master of Science in Electrical Engineering (Specialization in Computer Networking)

Saveetha Engineering College, Chennai, India

Bachelor of Engineering in Electronics and Communication Engineering

TECHNICAL SKILLS

Programming languages: C, Python

Tools: Wireshark, Cisco CLI, GNS3, MS office (Word, Excel and Power Point), Vagrant, VMware, Virtual, Code Blocks, PuTTY, Splunk, Routers, Switches, Firewalls, LTM, F5, LAN Switching, Docker Containers, Clouds (Azure, AWS, Google, IBM, Oracle). Networking: TCP/IP, UDP, VLAN, WAN, STP, Ethernet, 802.11, UDP, OSPF, EIGRP, RIP, DNS, DHCP, LAN, IPv4/v6 Subnetting, IP, IPsec, HTTP, ARP, SNMP, STP, LACP, NAT, VPN, QoS, WPA, WPA2, TFTP/FTP, SNMP, Network Automation, and JNCIA&CCNA Trained Operating Systems: Linux, Windows, Ubuntu, Cisco IOS, Junos OS, Arista EOS

Other Skills: Windows Server, Active Directory, SAN&NAS storage, Load Balancer, Hypervisor's (Hyper-V, VMWare, Oracle)

WORK EXPERIENCE

Graduate Teaching Assistant, Part Time-George Washington University (Washington DC)

- Collaborated with the professor to synthesize supplementary materials in Communication Networks Class conducting office hours, grading assignments, and quizzes for 15 students, and gave seminars on networking protocols such as DNS, ISO-OSI.
- Help 15 students in the lab to set up an environment and working with various protocols and troubleshooting them.

Library Assistant, Part Time-George Washington University (Washington DC)

- Provide the first point of contact, answers question, resolves problems, and explains and enforces policies for library patrons in person, by phone, email or by chat. Ensuring customers' needs are met on time on a daily basis for customer satisfaction.
- Troubleshoot and resolves connectivity and usage issues with various library equipment (AV, Computers, Peripherals), and remote access to resources. Provided network solutions and updates the documentation.

Research Assistant, Part Time-George Washington University (Washington DC)

- Conducted research on enhanced version of routers, servers, and switches using photonics and machine learning.
- Identified and analyzed main challenges in photonic devices like memory, non-linearity, domain crossings, and footprint.
- Addressing the issues of cross talk and insertion loss, an approach combining MZI switch elements with SOA gates wasproposed.

Associate Network Engineer, Full-Time – Lattice Network (Bangalore India)

- Performed network monitoring and analysis, performance tuning and troubleshooting network problems, improving network efficiency by over 75%
- Prepared all 250 users by designing and conducting training programs, providing references and support.
- Developed and maintained standard operating procedures documentation to ensure 100% network reliability and efficiency.

Network Analyst, Internship- Pet Pooja (Bangalore India)

- Ensured that company's network is running at its peak and provided support to customers who are experiencing network related issues and clearing of tickets using JIRA.
- Responding and troubleshooting alerts as well as participating in on-call rotation. Worked closely with other teams within the infrastructure group to analyze the application performance and build a scalable and economical work.

ACADEMIC PROJECTS

Network Intrusion Detection using Packet level features

- Developed a machine learning algorithm using KNN (K-Neural Networks) and Decision trees which can detect all the ٠ malicious packets that are flowing in the network.
- Implemented a hash algorithm to divide the unequal sized payload of the packets into equal sized blocks to detect the affected packets.

Automobile Based Black Box System using IOT (Paper Published by Journal of Physics)

- Designed and tested a paradigm deploying embedded C on AT Mega 2560 receives sensed data from various sensors. If any problem arises with the vehicle, GSM Module Sends accurate latitude and longitude locations to authenticated user.
- Provided development of safer cars, enhanced accident survivor care, assistance to insurance companies for auto crash reports, improved road safety, and promote lower death rate.

Working of routing protocols (EIGRP, OSPF and BGP) on Virtual Internet Routing Lab

Designed networks and implemented different routing protocols like EIGRP, OSPF, and BGP to analyze their working by performing various experiments on VIRL, a network simulation platform including virtual machines running Cisco's core operating systems.

Mar 2021 – Dec 2021

Sep 2022 - Dec 2022

May 2020 - Aug 2020

Apr 2021

Oct 2020

Sep 2022

April 2022 - May 2023

Jan 2023 - May 2023

Jan 2022 - May 2023

Sep 2017 - Aug 2021

(1st Class with Distinction)

GPA:3.73/4.0