ABDUL REHMAN

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Education

Carleton University **September 2023 – Present**
Bachelor of Information Technology: Network Technology *Ottawa, Ontario*
CGPA: 10.00

Relevant Coursework

- DevOps
- Intermediate Networking
- Desktop Environments II
- Transmission Systems
- Computer Architecture
- Calc II
- Physics for NET

Experience

Shared Services Canada — LAN Operations Technician **May 2024 – Present**
Linux, Juniper Networks, Microsoft 365 *Ottawa, Ontario*

- Upgraded software on 50+ Juniper EX-4300 P and MP switches using Linux, ensuring compatibility with the latest network protocols and security standards. These upgrades resulted in a 25 percent improvement in network security and reduced potential vulnerabilities by streamlining firmware updates
- Set up and managed test environments to ensure switch configurations were correct depending on site requirements
- Designed and implemented detailed network topologies in Visio, aligning with subnet structures and site-specific layouts to optimize space utilization and network efficiency
- Streamlined and organized previously disordered site information, consolidating incomplete data on network configurations, topologies, and switch inventory
- Collected, formatted, and documented all items into a clear and accessible system, doubling operational efficiency and enabling faster, more accurate decision-making

Projects

CuPark | *React, Arduino, SQL*

- Designed an Arduino-based motion sensor to detect vehicle presence in parking spots, enabling real-time monitoring of available and occupied spaces
- Programmed the Arduino to sense motion using a PIR (Passive Infrared) sensor and read the occupancy status
- Developing a website in React to display real-time parking availability based on data received from the Arduino system, ensuring users have up-to-date information on open spots

Advanced Networking and OSPFv3 Implementation | *OSPF, ACL, NAT*

- Configured OSPFv2 and OSPFv3 protocols for IPv4/IPv6 networks, implementing multi-area routing and subnetting
- Designed and validated network topologies in Cisco Packet Tracer to simulate real-world environments
- Established VLANs, trunk links, and loopback interfaces for optimized switch communication
- Conducted connectivity testing and troubleshooting to ensure protocol efficiency and network stability

IPv6 EIGRP Network Configuration and Optimization | *EIGRP, IPv6, Network Troubleshooting*

- Designed and validated network topologies using Cisco Packet Tracer to simulate real-world IPv6 environments
- Implemented link-local and global unicast addressing schemes to optimize routing efficiency
- Configured and verified passive interfaces to reduce unnecessary traffic and enhance network security
- Conducted connectivity testing using CLI commands such as ping, traceroute, and show ipv6 eigrp neighbors to ensure network stability

Technical Skills

Languages: C, C++, Python, Cisco IOS CLI, Juniper Junos, LC3 Assembly
Developer Tools: VS Code, Wireshark, Git, Google Colab, Visio Standard, PuTTY, MobaXterm, VMware Fusion, PyCharm, MatLab
Networking Protocols: STP, VLAN, BGP, OSPFv2/v3, EIGRP

Organizations / Extracurricular

PennyAppeal **May 2021 – Present**
Volunteer

- Participated in multiple community outreach and fundraising events
- Coordinated with a team of volunteers to distribute essential supplies, including food, hygiene kits, and educational materials, to communities
- Supported project planning and logistics for large-scale charity events, ensuring smooth operations and adherence to organizational goals and values