

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
- Desktop Environments II
- Computer Architecture
- Data Structures
- Intermediate Networking
- Transmission Systems
- Wireless Networks
- Database Concepts SQL

Experience

Shared Services Canada — NetDevOps Intern

April 2025 – Present

Ansible, Gitlab, Zabbix

Ottawa, Ontario

- Led project to audit and optimize GitLab user accounts by leveraging its API, identifying inactive users and implementing a deactivation strategy that adhered to platform constraints, resulting in a 32% reduction in licensing costs.
- Collaborated with cross-functional teams to analyze usage data and understand operational limitations, ensuring cost-saving measures were both secure and aligned with organizational policies.
- Designed and maintained Ansible playbooks that continuously monitor network and system health, triggering automated alerts and reports to ensure timely incident detection and resolution.
- Enhanced infrastructure reliability by integrating real-time monitoring and reporting mechanisms into CI/CD pipelines, significantly reducing manual oversight and response lag.
- Conducted in-depth research on Ansible Forms and its potential integration into existing workflows, preparing detailed implementation plans to extend automation capabilities across departments.
- Regularly reviewed and optimized existing Ansible playbooks to improve efficiency, minimize redundant tasks, and adapt to evolving infrastructure requirements.

Shared Services Canada — LAN Operations Technician

May 2024 – April 2025

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.
- 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.

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, Java, Cisco IOS CLI, Juniper Junos, Aruba CLI, LC3 Assembly

Developer Tools: VS Code, Wireshark, Git, AAP, Google Colab, Visio Standard, PuTTY, MobaXterm, VMware Fusion, PyCharm, MatLab, Elasticsearch, NNMI, Zabbix, DocuSeal, HashiCorp Vault, MySQL

Networking Protocols: TCP/IP, STP, ARP, RIP, BGP, OSPFv2/v3, EIGRP