AKSHAY PATEL

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PROFESSIONAL SUMMARY

With strong problem-solving and analytical skills, I am a dynamic IT professional with 2 years in Network Security Administration and 2 years in System Administration. Currently pursuing CompTIA Security+ Certification to advance expertise in Cybersecurity. Proven ability to troubleshoot, enhance systems, and perform Network/System vulnerability scans. Eager to apply practical experience and passion for Cybersecurity and Penetration testing in the Canadian IT industry.

PROFESSIONAL EXPERIENCE

Content Creator & Cybersecurity Enthusiast
Self-Employed | Ottawa, ON Canada | Apr 2023 – Present

- **Project: Active Directory Environment – Virtualization**
  Set up Windows Server 2019 and Windows 11 in a VirtualBox Home Lab to practice Active Directory Administration, including DNS, DHCP, and RAS features.
  - Technologies Used: Windows Server 2019, Windows 11, VirtualBox, PowerShell, DNS, DHCP, RAS
  - Project Link: [Active Directory Home Lab Environment](#)

- **Project: Automated Vulnerability Scanner and Port Scanner using Python**
  Developed a Python-based automated vulnerability scanner to identify security vulnerabilities in network devices and web applications using Nmap and OWASP ZAP.
  - Technologies Used: Python, Nmap, OWASP ZAP
  - Project Link: [Automated Vulnerability Scanner](#)

- **Project: Failed Login Attempt on Honeypot**
  Set up a honeypot on Microsoft Azure with log analytics and Microsoft Sentinel to monitor and analyze failed login attempts. Developed scripts to enhance security monitoring and incident response capabilities.
  - Technologies Used: Microsoft Azure, Log Analytics, Microsoft Sentinel, Honeypot
  - Project Link: [Failed Login Attempt on Honeypot](#)

- **Home Lab – VirtualBox/VMware Virtualization**
  Configured a virtual lab environment with Kali Linux, Windows Server 2019, and Windows 11 to practice vulnerability exploitation and remediation.
  - Technologies Used: Kali Linux, Windows Server 2019, Windows 11, VirtualBox, VMware, ZAP-OWASP, Burp Suite, Metasploit, Nmap, Zenmap, Active Directory, DNS, DHCP

- **Project: Phishing Email Analysis Project**
  Analyzed phishing emails to understand the tactics used by attackers and developed a remediation strategy for a Security Operations Center (SOC). Implemented analysis techniques to identify phishing patterns and enhance email security protocols.
  - Technologies Used: Python, Email Analysis Tools, Security Operations Center (SOC) Procedures
  - Project Link: [Phishing Email Analysis Project](#)

- **Certification: Networking Devices and Initial Configuration – CCNA Equivalent**
  Completed Cisco Networking Academy coursework focusing on the initial configuration and management of networking devices. Gained practical experience equivalent to the Cisco Certified Network Associate (CCNA) certification.
  - Technologies Used: Cisco Networking Devices, Routing, Switching

Network Security Administrator

Green Light Worldwide Pvt. Ltd. | Hobart, TAS Australia | Mar 2021 – Feb 2023 (Hybrid)

- Configured and deployed Nessus Essentials for conducting credentialed vulnerability scans targeting Windows systems.
- Assessed vulnerabilities with Nessus and remediated them.
- Implemented Vulnerability Management Function on sandbox networks including Discover, Priorities, Access, Report, Remediate and Verify.
- Configured routers, switches, firewalls, and other hardware to deploy and manage LAN, WAN, and wireless networks.
- Developed Python scripts and tools to automate malware scanning processes, enhancing the efficiency and effectiveness of security operations.
- Implemented custom vulnerability assessment scripts using Python frameworks like Metasploit and Nmap, enabling proactive identification and mitigation of security weaknesses.
- Monitored system performance to promote network speed, availability, and reliability using packet sniffers and Splunk/SIEM tools.
- Corrected network faults and malfunctions to restore connectivity to individual users and entire facilities.

Skills Developed:
Network Configuration | Network Performance Analysis | Nessus Configuration | Nessus Vulnerability Scan and Remediation | Malware Analysis | Cyber Kill Chain Framework | Git/Github | Python Automation | Metasploit Pen Testing | TCP/IP concepts | DNS/DHCP | Disaster Recovery Planning | Kali Linux Penetration testing tools | Wireshark | Nmap.

IT Systems Administrator

Absolute I.T.| Sunshine Coast, QLD Australia | Nov 2018 – Dec 2020

- Set up user accounts, permissions and passwords and defined network policies and procedures.
- Active Directory Administration:
  PowerShell Automation, Maintaining and Deploying User Accounts
- Created configuration guides for deploying new desktops, laptops, and mobile devices.
- Configured Remote Access Server (RAS) feature to support NAT/PAT
- Supported, configured, and maintained Windows DNS and DHCP server on Server 2016-2019.
- Utilized cloud-based Qualys Vulnerability Scanner for comprehensive vulnerability assessments, prioritized remediation efforts, and ensured compliance with industry standards.
- Maintained cloud-hosted and on-site servers by applying appropriate patches and monitoring hardware health.
- Proven proficiency in Burp Suite for web app security testing, covering active/passive scanning, manual testing, and automated vulnerability detection.
- Performed comprehensive web app security assessments with Burp Suite, identifying SQL injection, XSS, CSRF, and auth bypass vulnerabilities.
- Generated reports outlining network performance, costs, and downtime issues.

Skills Developed:

Microsoft Active Directory | Qualys Vulnerability Scanner | Burp Suite Web Scanning | Identifying SQL injection | Office 365 Administration | Azure Active Directory |38 Windows Server 2016-2019 | Permissions and Access Control | Spam Management | Shell/Powershell Scripting | System Maintenance | Performance Monitoring and Optimization | Windows 10/11/ Linux/CentOS/Ubuntu

Junior Java Developer

Softvan Pvt Ltd | Ahmedabad, GUJ India | Apr 2015 – May 2016

- Gathered and analyzed translated functional requirements into technical specifications.
- Obtained and evaluated hardware costs, reporting requirements and security needs.
- Conducted full lifecycle software development from planning to deployment and maintenance.

Skills Developed:

WordPress, Java, JSP| JavaScript, XHTML, CSS | MySQL | Data Structures and Algorithms | ITIL | Data Storage and Retrieval | Debugging and Troubleshooting | Software Deployment

OTHER WORK EXPERIENCE

Pharmacy Assistant

Almonte Pharmacy And Health Center | Almonte, ON Canada | Sept 2023 – Present

Automotive Service Advisor Level 2

Majorel Canada Inc. | Waterloo, ON Canada | May 2023 – Aug 2023

Customer Service Representative

7-Eleven Australia | Sunshine Coast, QLD Australia | Oct 2016 – Sept 2018

EDUCATION

Master of Engineer – Information Technology (Network and Security Specialisation)

Charles Sturt University |Brisbane, QLD Australia | Jun 2016 – Jun 2018

Bachelor of Engineer – Information Technology

Gujarat Technological University |Ahmedabad, Guj India | Jun 2010 – Jun 2014

SOFT SKILLS

Active Listening | Adaptability | Critical Thinking | Decision-making | Problem-solving | Teamwork | Time Management | Empathy | Flexibility | Excellent Phone Etiquettes | Self-motivated | Leadership | Troubleshooting | Communication | Multitasking and Prioritization

AVAILABILITIES

Full-time Mon- Fri (Available Weekends if needed) | Start Date: Immediately.