

Niraj Thapa

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Professional Summary

Cloud and cybersecurity-focused IT professional with expertise in building, securing, and automating infrastructure across multi-cloud environments (GCP, Azure, AWS). Proven ability to design production-grade systems combining DevOps practices, container orchestration, and security-first architecture. Experienced in Infrastructure as Code (Terraform), SIEM implementation, and Python automation. Passionate about leveraging technology to solve complex problems at scale and currently seeking opportunities to contribute to enterprise cloud solutions.

Technical Skills

Cloud & Infrastructure: Google Cloud Platform (GCP), Microsoft Azure (VM Scale Sets, Load Balancer, Traffic Manager), AWS (EC2, S3, VPC, IAM), Terraform (IaC), Multi-Cloud Architecture, High Availability Design.

DevOps & Automation: Docker, Docker Compose, Kubernetes (Multi-Node Clusters), GitHub Actions (CI/CD), Infrastructure Automation, Configuration Management.

Programming & Scripting: Python (OOP, Automation), Bash Scripting, PowerShell, SQL, Git Version Control.

Operating Systems: Linux Administration (Ubuntu, Kali), Windows Server, Virtualization (Hyper-V, VirtualBox), Active Directory.

Cybersecurity: SIEM (OSSIM), IDS/IPS, Penetration Testing (Metasploit, Burp Suite, Nmap), Firewall Configuration, SSL/TLS Encryption, VPN (WireGuard, IPsec), Email Security (SPF/DKIM/DMARC).

Networking: TCP/IP, DNS/DHCP, VLANs, OSPF Routing, Load Balancing (Nginx, Azure), Network Security, Wireshark, Cisco IOS.

Professional Experience

Cipherpit IT Solutions

Founder & Lead Developer

Toronto, ON
2025 – Present

- Architected secure IT infrastructure and cybersecurity solutions, focusing on real-world enterprise threat mitigation strategies.
- Deployed production web and email infrastructure implementing SSL/TLS encryption, firewall rules, and defense-in-depth security controls.
- Configured multi-factor authentication systems and custom mail servers supporting SMTP, IMAP, and POP3 with SPF/DKIM/DMARC validation.
- Built automated deployment pipelines reducing manual configuration time and ensuring consistent security baselines across infrastructure.
- Conducted continuous security assessments and penetration testing in controlled lab environments to identify vulnerabilities.

Daramax Construction Services

Full-Stack Web Developer & IT Administrator

Toronto, ON
June 2025 – July 2025

- Designed and deployed company's official website on secure production infrastructure achieving **99.9% uptime SLA**.
- Implemented HTTPS with Let's Encrypt SSL/TLS certificates and server hardening techniques (fail2ban, firewall rules, security headers).
- Architected custom email server infrastructure with encrypted communications and managed DNS configuration for high availability.
- Established real-time security monitoring and logging mechanisms to detect and respond to potential threats.

Scotiabank

Customer Service Associate

North York, ON
March 2025 – Present

- Collaborated with IT security teams to report potential vulnerabilities and suspicious activities, contributing to fraud prevention initiatives.
- Provided technical support for digital banking platforms and mobile applications, troubleshooting authentication and access issues.
- Educated customers on cybersecurity best practices including phishing detection, secure password management, and multi-factor authentication.
- Executed high-volume financial transactions while maintaining strict adherence to privacy regulations and security protocols.

Janta ko Nimti (Non-Profit)
Volunteer Web Developer

Remote
September 2025

- Developed organization's official website with enforced HTTPS and modern web security standards including CSP headers.
- Implemented secure email infrastructure enabling encrypted internal communication for sensitive organizational data.
- Applied comprehensive server hardening techniques including SSH key authentication, disabling unnecessary services, and rate limiting.

Key Technical Projects

Enterprise Cloud & Network Lab (Multi-Cloud Architecture) | *Azure, AWS, Terraform, GitHub Actions*

- Architected hybrid cloud environment spanning Microsoft Azure and AWS with automated failover and geographic redundancy.
- Implemented Infrastructure as Code using Terraform Cloud with version-controlled configurations enabling reproducible deployments.
- Configured Azure Load Balancer and Traffic Manager for intelligent traffic distribution and high availability across multiple regions.
- Developed automated VM deployment pipeline using GitHub Actions, **reducing provisioning time from hours to minutes**.
- Implemented DNS-based routing with automatic failover mechanisms simulating enterprise-grade uptime requirements (99.95% availability).

DevOps & Container Orchestration Platform | *Kubernetes, Docker, CI/CD*

- Deployed production-ready multi-node Kubernetes clusters orchestrating containerized microservices with automated scaling.
- Optimized Dockerfiles using multi-stage builds and minimal base images, **reducing container image size by 60%**.
- Engineered Docker Compose applications with persistent storage volumes, environment variable management, and health checks.
- Implemented rolling updates and blue-green deployment strategies ensuring zero-downtime releases.
- Published versioned container images to Docker Hub with automated tagging through CI/CD pipelines.

Cybersecurity & Threat Detection Infrastructure | *OSSIM SIEM, Kali Linux, Python*

- Deployed OSSIM SIEM solution aggregating and correlating security logs from heterogeneous Windows and Linux systems.
- Developed custom correlation rules and threat detection algorithms identifying suspicious patterns including brute-force attacks and privilege escalation.
- Conducted ethical hacking exercises using Kali Linux toolkit (Metasploit, Nmap, Burp Suite) in isolated lab environments.
- Built hardened private mail server with complete SPF/DKIM/DMARC implementation and end-to-end TLS encryption.

Education

Seneca Polytechnic
Computer Systems Technician (Diploma) – Network & System Administration

Toronto, ON
Sep 2024 – Dec 2025

Seneca Polytechnic
Bachelor of Informatics and Security (Transferred)

Toronto, ON
Jan 2023 – Apr 2024

Certifications

Junior Cybersecurity Analyst Career Path – Cisco (2025)

Ethical Hacker – Cisco (2025)

AWS Academy Graduate: Cloud Foundations – Amazon Web Services (2025)

Microsoft Defender for Endpoint Automation – Microsoft (2024)

Introduction to Cybersecurity – Cisco (2024)