

Niraj Thapa

Toronto, Ontario, Canada

+1 (437) 436-6898 | nirajthapa@nirajworks.com | [linkedin.com/in/ciphercore](https://www.linkedin.com/in/ciphercore)

github.com/ciphercore-it | profile.nirajworks.com

Professional Summary

Lead Architect with senior-level expertise in cloud engineering and cybersecurity. Designed and deployed a multi-cloud (GCP, Azure, AWS) production environment using automated Terraform pipelines, reducing provisioning time by 60% while embedding security-first controls. Implemented enterprise-grade SIEM (OSSIM) and end-to-end email security (SPF/DKIM/DMARC), enhancing threat detection and compliance. Eager to apply this background to deliver resilient, secure cloud solutions for forward-thinking organizations.

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

2025 - Present

Lead Architect

Toronto, ON

- Architected a secure IT infrastructure using Docker, firewall configuration, and VLAN segmentation, which reduced the external attack surface and improved compliance with enterprise security standards
- Deployed production web and email services with Docker Compose, SSL/TLS encryption, and strict firewall rules, delivering enhanced data protection and reliable service availability
- Configured multi-factor authentication and custom mail servers (SMTP, IMAP, POP3) with SPF, DKIM, and DMARC validation, strengthening email security and lowering phishing risk
- Built automated deployment pipelines reducing manual configuration time and ensuring consistent security baselines across infrastructure.
- Conducted continuous security assessments and penetration testing in a lab environment, uncovering critical vulnerabilities and guiding remediation to improve overall security posture

Daramax Construction Services

Jun 2025 - Jul 2025

System Administrator

Toronto, ON

- 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 applied server-hardening techniques (fail2ban, firewall rules, security headers), eliminating external security warnings and cutting unauthorized access attempts by roughly 40%
- Architected a custom email server with Postfix and Dovecot on Ubuntu, enabled TLS encryption, and managed DNS (SPF, DKIM, DMARC) for high availability, delivering zero email downtime over a 12-month period
- Established real-time security monitoring by deploying OSSEC IDS/IPS and centralized logging via Graylog with Docker Compose, enabling threat detection and response within five minutes and improving overall incident response time

Scotiabank

Mar 2025 - Present

Customer Experience Associate

North York, ON

- Delivered exceptional customer service by actively engaging with clients to identify their specific needs, resulting in increased customer satisfaction and loyalty.
- Resolved customer complaints by applying conflict-resolution techniques and documenting cases in the CRM, which maintained high satisfaction and repeat business
- Trained new staff on policies and accounting procedures to improve accuracy and efficiency.

Janta ko Nimti (Non-Profit)

Sep 2025 - Sep 2025

Volunteer Web Developer

Remote

- Developed the organization's official website using Git for version control, implemented HTTPS with TLS certificates and CSP headers, which secured all visitor traffic and prevented cross-site scripting attacks
- Implemented secure email infrastructure enabling encrypted internal communication for sensitive organizational data.

- Applied server hardening on Windows Server by configuring SSH key authentication, disabling unnecessary services, and adding rate-limiting rules, which reduced unauthorized access attempts and increased overall system stability

Key Technical Projects

Enterprise Cloud & Network Lab (Multi-Cloud Architecture)

- 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

- 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

- 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

Diploma, Computer System Technician

- GPA: 3.7

Sep 2024 - Dec 2025

North York

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)
- Palo Alto Networks: Cisco (2024)
- Advent of Cyber 2025: TryHackMe (Jan 2026)