

Niraj Thapa

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Summary

Passionate and self-driven IT student specializing in **cloud systems, DevOps, and cybersecurity**. Experienced in deploying secure infrastructures using **Docker, Kubernetes, Azure, AWS**, and **Nextcloud**, along with configuring **VPNs, SIEM, and network systems**. Known for strong problem-solving skills, attention to detail, and the ability to bridge customer needs with reliable technical solutions.

Education

Global College of Management	Feb 2019 – June 2021
Commerce with Applied Computer Studies	Higher Secondary
3.33	

Relevant Coursework: Economics, Business Mathematics, Accounting, Computer Science

Seneca Polytechnic	January 2023 - April 2024
Informatics and Security	Bachelor
 https://senecapolytechnic.ca	
Transferred	


Seneca Polytechnic	September 2024 - December 2025
Computer System Technician	Diploma
 https://senecapolytechnic.ca	


Experience

Pashupati Mobile & Repair Center	June 2022 - November 2022
Sales Associate	Gaushala, Kathmandu
<ul style="list-style-type: none">Delivered exceptional customer service by actively engaging with clients to identify their specific needs, resulting in increased customer satisfaction and loyalty.Successfully handled customer complaints, ensuring high levels of satisfaction and return business.Trained new staff on store policies and accounting procedures to improve accuracy and efficiency.	

Kajun Chicken & Seafoods	April 2023 – August 2023
Cashier & Front Desk Assistant	7077 Bathurst St Unit #6, Thornhill
<ul style="list-style-type: none">Delivered a welcoming and positive first impression to all customers, ensuring a high level of satisfaction.Managed cash register operations, processed payments accurately, and balanced daily transactions with zero discrepancies.Prepared and reviewed daily financial summaries to support operational transparency and accountability.Onboarded and evaluated new staff, enhancing training effectiveness and overall team performance.Maintained cleanliness and organization of the front counter to meet health and safety standards.Collaborated with kitchen and delivery staff to ensure timely and accurate order fulfillment.	


Scotiabank	March 2025 - Present
Customer Service Associate	1603 Wilson Avenue, North York, ON
<ul style="list-style-type: none">Serve as the primary point of contact for clients, providing outstanding customer service and personalized banking assistance in a high-traffic financial environment.Perform day-to-day banking transactions with accuracy, efficiency, and professionalism.Engage customers in meaningful conversations to understand their financial needs and provide tailored solutions.Promote digital banking tools and assist clients in using mobile and self-service platforms, improving overall digital engagement.Identify simple sales opportunities and contribute to the branch's performance targets by recommending appropriate banking products.Foster long-term relationships with customers through trust, communication, and proactive service.Demonstrate strong teamwork and adaptability while working in a fast-paced, goal-oriented setting.	

Daramax Construction Services	June 2025- July 2025
Full-Stack Web Developer & IT Administrator	
 https://daramaxservices.ca	
<ul style="list-style-type: none">Designed and developed the official Daramax Construction Services website from scratch.Set up and configured a custom email server supporting SMTP, IMAP, and POP protocols.Created the company's logo and branding materials for professional identity.Deployed and hosted the website on a secure and reliable web server.Implemented SSL and TLS certificates to ensure encrypted and secure connections.Strengthened website and email server security through configuration hardening and HTTPS enforcement.	

Janta ko Nimti	September 2025- September 2025
Volunteer Web Developer & IT Support	
 https://jantakonimti.com	
<ul style="list-style-type: none">Designed and developed the official website for Janta ko Nimti, a non-profit organization.Set up and configured a secure email server supporting SMTP, IMAP, and POP protocols.Created the organization's logo and visual branding assets.Deployed and hosted the website with SSL and TLS encryption to ensure data security.Implemented best practices for web and server security, including HTTPS enforcement.Contributed services voluntarily and donated technical resources to support the organization's mission of helping people.	

niraj.info

Web Developer & System Administrator

 <https://niraj.info>

- Built and manage a personal website to showcase my resume, portfolio, and professional growth.
- Deployed a private mail server (SMTP, IMAP, POP) for personal and project communications.
- Integrated SSL/TLS certificates and backend monitoring for secure and stable performance.
- Continuously experiment with new technologies in web design, automation, and cybersecurity.


Cipherpit IT Solutions

Founder & Developer

 <https://cipherpit.com>

- Currently developing **Cipherpit.com**, a startup project focused on delivering innovative IT and cybersecurity solutions.
- Designing and building a scalable website architecture and backend infrastructure.
- Setting up a secure email and authentication system with **SMTP, IMAP, and POP** integration.
- Implementing **SSL/TLS encryption**, firewalls, and access controls to ensure data integrity.
- Leading branding, UI/UX design, and digital identity creation for the company.
- Exploring long-term deployment options using **Azure and AWS** for high availability and security.

Volunteering

Janta ko Nimti
 https://jantakonimti.com
<ul style="list-style-type: none">Volunteered to design, develop, and maintain the official website for <i>Janta ko Nimti</i>, a non-profit organization.Configured and secured the organization's email server with SMTP, IMAP, and POP protocols.Implemented SSL/TLS certificates, HTTPS, and server hardening to protect sensitive data.Created the official logo and digital branding to strengthen the organization's outreach.Donated personal funds and technical resources to support humanitarian efforts and assist individuals in need.

Awards

President's Honour	Winter 2025
Seneca Polytechnic	

Projects		
<div>Full-Stack Web Server Deployment (Local & Cloud)</div> <div><ul style="list-style-type: none">Deployed and secured Apache/Nginx-based web servers on virtual machines using VirtualBox, VMware, and cloud platforms.Configured SSL/TLS encryption, custom domains, and hosted multiple services in sandboxed environments.</div> <div>Load Balancer & High Availability Setup</div> <div><ul style="list-style-type: none">Configured Azure Load Balancer and Traffic Manager for regional and global redundancy.Deployed failover mechanisms and DNS-based routing to ensure uptime and performance optimization.Built a simulated multi-server environment using VMs on Linux and Windows and on Cloud.Configured Nginx-based load balancers and tested failover in a virtualized lab.</div> <div>Email Server & Webmail Configuration</div> <div><ul style="list-style-type: none">Built a custom mail server with Postfix & Dovecot, enabling SMTP, IMAP, and POP functionality.Integrated Roundcube Webmail, DNS (MX/SPF/DKIM) records, and enforced TLS encryption for secure communication.</div> <div>Private Cloud Collaboration Suite (Nextcloud)</div> <div><ul style="list-style-type: none">Self-hosted Nextcloud instance on Apache with a MariaDB backend.Enabled secure access using HTTPS and managed file sync, storage, and database operations.</div> <div>Virtualization & Lab Environments</div> <div><ul style="list-style-type: none">Designed and maintained custom virtual labs using VMware Workstation and VirtualBox on both Windows and Linux hosts.Deployed multiple VMs to simulate enterprise networks, security attacks, and disaster recovery scenarios.Used snapshots and network isolation for safe experimentation and rollback.</div> <div>Personal VPN Server (WireGuard & IPsec)</div> <div><ul style="list-style-type: none">Deployed self-hosted WireGuard and IPsec VPN servers for secure remote access.Configured static routing, key-based authentication, and multi-client connections.</div> <div>Cloud Infrastructure Automation (Terraform + GitHub Actions)</div> <div><ul style="list-style-type: none">Automated VM deployments on Azure using Terraform Cloud integrated with GitHub Actions.Deployed Windows Server 2022 with nested virtualization for multi-VM project environments.</div> <div>Cross-Cloud Networking & Management</div> <div><ul style="list-style-type: none">Configured and managed environments across Azure, AWS, and Google Cloud platforms.Implemented secure inter-network connectivity, IAM policies, and cost optimization practices.</div> <div>Penetration Testing & Ethical Hacking Labs</div> <div><ul style="list-style-type: none">Targeted self-deployed services (web, email, Wi-Fi) on virtual machines to test for real-world vulnerabilities.Used tools like Ettercap, Nmap, Wireshark, and Metasploit in Kali Linux VM environments.Practiced exploitation, enumeration, and vulnerability analysis in controlled environments.Documented vulnerabilities and applied mitigation techniques (fail2ban, firewall rules).</div> <div>Network Traffic & Packet Analysis</div> <div><ul style="list-style-type: none">Captured and analyzed packets using Wireshark and tcpdump for network diagnostics.Configured Cisco & Aruba switches for VLANs, trunking, and DHCP scope assignments.</div> <div>SIEM & Threat Detection (OSSIM & ELK Stack)</div> <div><ul style="list-style-type: none">Deployed OSSIM for centralized log collection and intrusion detection.Integrated Windows and Linux devices to monitor threats and generate correlation alerts.</div> <div>Local AI & WebUI Environment (Pinokio & Others)</div> <div><ul style="list-style-type: none">Deployed AI tools and WebUI frameworks on isolated VMs for safe experimentation.Configured networking and resource allocation for containerized and GPU-assisted workflows.</div> <div>Containerization with Docker</div> <div><ul style="list-style-type: none">Designed and containerized multi-service applications using Docker and Docker Compose.Built and optimized custom Dockerfiles for web servers, databases, and backend APIs.Managed container networking, persistent storage volumes, and environment variables.Deployed containers on Azure VM and local virtualized environments for testing and CI/CD integration.Implemented image versioning, tagging, and pushed builds to Docker Hub for reuse.</div> <div>Kubernetes Deployment & Cluster Management</div> <div><ul style="list-style-type: none">Deployed a multi-node Kubernetes cluster for orchestrating containerized microservices.Configured Pods, Deployments, Services, and Ingress Controllers for app scaling and load balancing.Implemented ConfigMaps, Secrets, and Persistent Volumes for secure configuration and data management.Used kubectl and YAML manifests for automated deployments and rolling updates.Monitored cluster health and scaling performance using kubectl top, metrics-server, and dashboard tools.</div> <div>Enterprise Network Configuration (Cisco & Aruba Switches)</div> <div><ul style="list-style-type: none">Configured and managed Cisco (2960) and Aruba (6300) switches for enterprise-level networking labs.Created and tested VLANs, trunk links, and inter-VLAN routing for multi-subnet communication.Implemented DHCP pools, static IP assignments, and SSH key-based management for secure remote access.Troubleshoot connectivity, spanning-tree issues, and routing errors using CLI and packet analyzers.Designed and documented switch topology to simulate real-world corporate networking environments.</div> <div>AI & Machine Learning Environment Deployment</div> <div><ul style="list-style-type: none">Built and deployed local AI/ML inference environments using Docker, Pinokio, and Ollama.Integrated LLaMA, Mistral, and other open-source models into secure WebUI dashboards.Utilized GPU acceleration and containerized setups for efficient model performance.Experimented with Azure Cognitive Services for automation, voice recognition, and NLP tasks.</div> <tr><th>Languages</th></tr> <tr><td><div>English</div><div>●●●●●</div><div>Nepali</div><div>●●●●●</div><div>Hindi</div><div>●●●●●</div><div>French</div><div>●○○○○</div></td></tr>	Languages	<div>English</div> <div>●●●●●</div> <div>Nepali</div> <div>●●●●●</div> <div>Hindi</div> <div>●●●●●</div> <div>French</div> <div>●○○○○</div>
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Interests

Cybersecurity

Vulnerability Research, Ethical Hacking & Penetration Testing, Malware & Memory Forensics, Security Information & Event Management (SIEM)

Cloud Technologies

Automation, Infrastructure as Code (Terraform), Cloud Automation & Scalability, Serverless & Multi-Region Deployments, Microsoft Azure, AWS & Google Cloud

DevOps & Containers

Docker & Kubernetes, CI/CD Pipelines (GitHub Actions), Container Security & Orchestration

Networking

VLAN Design & Routing Protocols, VPN & Firewall Configuration, Network Traffic Analysis (Wireshark)

Digital Privacy & Encryption

VPNs, Cryptography, IDS/IPS, SSL/TLS Certificates & HTTPS Enforcement, Data Encryption Standards & Key Management, Secure Email & Identity Protection

Financial Technologies

Banking Security, Customer Engagement, Blockchain Fundamentals & Smart Contracts, FinTech Security & API Integration, Cloud-Based Financial Platforms

Travel & Culture

Cultural Immersion, Language Learning, Global Networking, Exploring Global Technology Trends

Logic & Strategy Games

Puzzle Solving, Cybersecurity Challenges, Simulation & Management Games

Skills

Cloud Platforms

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Microsoft Azure, Amazon Web Services (AWS), Google Cloud Platform (GCP), Terraform Cloud & Infrastructure as Code (IaC)

Operating Systems & Server Management

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Linux, Windows Server, Active Directory, Group Policy, VMware Workstation / VirtualBox, Shell scripting & system administration

Security & Monitoring

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SEIM, LDAP, Firewall Configuration, IDS/IPS Management, SSL/TLS Certificates & HTTPS Configuration, Network Security & Threat Detection

DevOps & Containerization

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Docker, Git, GitHub Actions, CI/CD Pipelines, Kubernetes (Pods, Deployments, Ingress), YAML Configuration Management, Version Control (Git / GitHub)

Database Management

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MySQL, MariaDB, Microsoft SQL Server, Azure SQL, Basic PostgreSQL, SQLite (local apps & lab setups), Database Backup & Replication, Query Optimization & Access Control

Scripting & Automation

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Bash, PowerShell, Cron Jobs, systemctl, SSH configuration, Python, Terraform for Cloud Infrastructure, API Integration & Automation, Configuration Management

Networking & Protocols

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DNS, DHCP, VLANs, TCP/IP, NAT, OSPF, Routing & Switching, Wireshark, Access Control Lists, Cisco (2960) & Aruba (6300) Switch Configuration, WireGuard, IPsec VPN, SSH Tunneling, Load Balancing & Traffic Management, IPv4/IPv6 Network Design, Cisco IOS CLI Management, Subnetting & Static Routing

Web & Email Servers

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Apache / Nginx Web Servers, Postfix / Dovecot Mail Servers, Roundcube Webmail Configuration, HTTPS Enforcement & SSL/TLS, Nextcloud Private Cloud Setup, DNS Records (A/ MX/ SPF/ DKIM & DMARC)

AI & Machine Learning

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TensorFlow / PyTorch (basic modeling), Scikit-learn / Pandas / NumPy, Azure Cognitive Services (AI & NLP), Local AI Environments (Pinokio/ Ollama & WebUI), GPU Acceleration (NVIDIA RTX 3060)

Other Tools & Skills

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Microsoft Office Suite, Time Management, Problem Solving, Customer Service, Git / GitHub Version Control, Visual Studio Code / Jupyter Notebooks, Project Documentation (Markdown/ Notion), Troubleshooting & Technical Support

Certifications

Introduction to Cybersecurity Cisco	November 2024
Ethical Hacking Series LinkedIn Learning <ul style="list-style-type: none">• Footprinting and Reconnaissance• Scanning Networks• Enumeration• System Hacking• Social Engineering• Vulnerability Analysis• Malware Analysis• Denial of Service• Wireless Networks• Session Hijacking• Web & Application Hacking• Mobile & IoT Device Hacking• Evading IDS, Firewalls, and Honeypots• Cryptography	January – April 2025
IT Security Foundations: Core Concepts LinkedIn Learning	January 2023
Business Analytics: Marketing Data LinkedIn Learning	January 2023
Configure and Manage Automation using Microsoft Defender for Endpoint Microsoft	November 2024
AWS Academy Graduate: AWS Cloud Foundations Amazon Web Services (AWS)	March 2025
Ethical Hacker Cisco https://www.credly.com/badges/7c127681-178a-4ccf-9490-1161e919b525/linked_in_profile	September 2025
Junior Cybersecurity Analyst Career Path Cisco https://www.credly.com/badges/0bea95c4-2c3e-4ebb-b392-52adf6c94f27/linked_in_profile	September 2025
References	
References available upon request	