GANESH GAHA

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Career Objective

A CCNA and NSE certified Network Engineer with extensive experience in multi-vendor environments, including Mikrotik, Cisco, Ubiquiti, Cambium, and Ruijie over a 9-year career. Skilled in network architecture, security implementation with Fortinet, and proactive monitoring with Zabbix. Aims to leverage advanced technical and troubleshooting abilities to optimize network performance and support critical infrastructure.

Key Skills

- **Networking:** LAN/WAN, TCP/IP, DNS, DHCP, VPN, VLANs, WLAN Routing & Switching

- **System Administration:** Windows Server, Linux, macOS

- **Wireless:** Hotspot and MESH

- **Monitoring:** Zabbix

- **Tools:** Cisco Packet Tracer, Wireshark, Remote Desktop, MS Office 365, Zabbix

- **Hardware:** PC assembly, upgrades, and troubleshooting

- **Security:** Access Control Lists (ACLs), Network Security Fundamentals (NSE1)

- **Cloud and Virtualization:** AWS, Azure, Google Clouds, VMware

- Software Management: Install, update, and configure software and other essential applications.

- **Data Security:** Implement and monitor cybersecurity measures to protect sensitive data.

- **Web Development & Media:(WordPress, HTML/CSS/JS)**, Website Management (cPanel), Social Media Management, Graphic Design (Canva, Adobe Photoshop)

- **Documentation:** Record and track IT issues, solutions, and system configurations.

- **Soft Skills:** Strong communication, teamwork, analytical problem-solving, and time management

Certifications

- Cisco Certified Network Associate (CCNA) – 2025
- NSE 1 – Network Security Associate (Fortinet Certified Fundamentals -2021)

Education

- **Master in Information Technology (MIT) – Specialization in Cyber Security**

  Nepal Open University – Ongoing
- **Bachelor in Computer Applications (BCA)**

  Butwal Kalika Campus, TU, Nepal – [2023]
- **Relevant Course**: CompTIA ITF+, CompTIA A+, CompTIA N+ CFA,

Training and Self-paced/BootCamp

Network and System Administrator - Jiwan Bhattarai CCIE #60261, CEH, Global IT Security Specialist

CompTIA N+ - Jiwan Bhattarai CCIE #60261, CEH, Global IT Security Specialist

120Hours RHCSA BootCamp - Jiwan Bhattarai CCIE #60261, CEH, Global IT Security Specialist

CompTIA A+ - Online

CompTIA ITF+ - Online

Professional Experience

IT Assistant | Butwal Kalika Campus, Butwal

- **Managed** the entire campus IT infrastructure, including networking, servers, and computer labs, ensuring high availability for 4,000+ students and 100+ faculty members.
- **Provided** comprehensive technical support for over 100 systems across Windows, Linux, and macOS environments, resolving hardware, software, and connectivity issues.
- **Monitored** campus network performance and health using Zabbix and Mikrotik Graph to proactively identify and resolve potential issues.
- **Administered** a multi-vendor wireless network, managing hotspot services with Cambium(E410), Mikrotik(Capsman), UniFi(U6 Pro), and Ruijie(RG-RAP2260(H)) access points.
- **Maintained** the official campus website via cPanel, enhancing security by configuring and updating the Cloudflare Web Application Firewall (WAF).

- **Oversaw** the administration of the campus EMIS and LMS platforms, ensuring smooth academic operations and data integrity.
- **Supported** mobile applications used by students and staff, providing troubleshooting and maintenance for academic and administrative functions.
- **Enhanced** digital literacy across the campus by designing and leading IT workshops on various technical topics for both students and faculty.
- **Served** as a project mentor/supervise for BCA students, offering technical expertise and guidance from project conception to completion.

Additional Responsibilities

- **Managed** the campus's social media presence to promote activities and disseminate announcements.
- **Created** a variety of graphic design materials (banners, posters, digital creatives) for campus events and official communications.
- **Conducted** photography and videography for key events, including all post-production editing.

Network Engineer | Nagarik Cable Link (ISP), Butwal
2016 – 2022

Core Network Operations & Management

- **Network Monitoring:** Proactively monitor the health and performance of the core network infrastructure (routers, switches, servers) using tools like Zabbix, PRTG, LibreNMS, or SolarWinds.
- **Troubleshooting & Incident Response**: Act as a Level 2/Level 3 escalation point for complex network issues, diagnosing and resolving outages related to routing, switching, and connectivity.
- **Routing Protocol Management:** Configure, manage, and troubleshoot interior gateway protocols (OSPF, IS-IS) and the exterior gateway protocol (BGP) for peering with other networks.
- **Hardware Management:** Perform configuration, upgrades, and maintenance on core network hardware from vendors like Cisco, Juniper, Mikrotik, Cdata, Phyhome Huawei and Nokia.
- **Bandwidth & Capacity Management:** Monitor bandwidth utilization across the network and plan for capacity upgrades to meet growing customer demand.

Network Planning, Design & Implementation

- **Network Architecture:** Design and implement scalable and redundant network architectures, including core, distribution, and access layers.
- **FTTH/GPON/EPON Design:** Plan and oversee the expansion of Fiber-to-the-Home (FTTH) networks, including the design of GPON architecture and splitter placement.
- **Service Implementation:** Design and deploy new network services such as MPLS, L2/L3 VPNs, and dedicated internet access (DIA) for corporate clients.
- **Peering & Transit Strategy:** Plan and establish peering relationships with other ISPs and content delivery networks (CDNs) to optimize traffic flow and reduce transit costs.
- **IP Address Management:** Manage the allocation and documentation of public and private IP address space (IPv4 and IPv6).

Network Security

- **Firewall & Security Policy:** Configure and manage firewalls (like Fortinet, which you have experience with) to protect the core network.
- **DDoS Mitigation:** Implement and manage DDoS (Distributed Denial of Service) mitigation strategies and tools to protect against attacks.
- **Access Control:** Implement and enforce network access control policies and best practices.
- **Threat Analysis:** Monitor for security threats and vulnerabilities within the network and respond accordingly.

Customer Provisioning & Support

- **Enterprise Client Onboarding:** Provision and configure network services for new enterprise and corporate clients.
- **Technical Escalation**: Serve as the final point of technical escalation for high-priority customer issues that the support team cannot resolve.
- **SLA Management:** Ensure that the network performance meets the Service Level Agreements (SLAs) promised to customers.

Projects & Practical Work

- **Campus IT Infrastructure Overhaul (Butwal Kalika Campus)**
Designed and implemented the campus's complete IT infrastructure, configuring Inter-VLAN routing, security ACLs, and a campus-wide wireless

network. (Cisco-350, Mikrotik CCR1009, CRS317, CRS326, Cambium e410, Ruijie, TPlink, Dlink)

- **FTTH Network Implementation (Nagarik Cable Link)**
  Led the design and deployment of the core Fiber to the Home (FTTH) network for the ISP, expanding service coverage and optimizing performance for residential and commercial customers.

- **Enterprise Network Solutions (Nagarik Cable Link)**
  Engineered and deployed customized, secure, and high-performance network setups for various enterprise clients.

- **Hotel Network Design & Support (Dream International Hotel Project)**
  Served as a key support engineer for the network design and implementation at the Dream International Hotel, ensuring robust and reliable connectivity.

- **System Administration & Virtualization Setup (Academic Project)**
  Configured Windows Server and Linux environments for user management, file sharing, and virtualization.

- **Network Design & Simulation (CCNA Lab Project)**
  Designed and implemented a simulated enterprise network using Cisco Packet Tracer with VLANs, routing protocols, and ACLs.

- **Freelance Web Development Projects**
  Designed, developed, and deployed custom WordPress websites for various clients, including educational institutions (schools, institutes) and an IT firm.

Reference

Jiwan Bhattarai

CCIE #60261, CEH, Global IT Security Specialist, IT Consultant

🌐 jiwanbhattarai.com | LinkedIn: linkedin.com/in/jiwanbhattarai/

Er. Aashish Neupane

BCA HOD at Butwal Kalika Campus

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Sanjeev Kumar Darlami

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Lalit Rana

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