

# Satyam Thakur

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## EDUCATION

**Florida Polytechnic University, Florida, USA**

Aug 2024-May 2026

*Masters of Science, Major: Computer Science*

**Tribhuvan University, Institute of Engineering, Kathmandu, Nepal**

Dec 2016-Oct 2021

*Bachelor of Engineering, Major: Electronics and Communication*

GPA: 3.65

## SKILLS AND INTERESTS

- **Languages:** Python, C, C++, Golang, SQL, bash/shell scripting, YAML/JSON, SQL.
- **Tools:** Git, GitHub, VS Code, Docker, Ansible, Terraform, GNS3, ENSP, Packet Tracer, Wireshark, Office 365.
- **Cloud and Operating Systems:** AWS, Azure, Huawei Cloud, Cisco IOS, Huawei VRP, Linux, Ubuntu, Windows.
- **Network Devices:** **Switches** (Huawei S9000, CE6800, Cisco 2960-S), **OLT** (MA5800 Series) **Routers** (Huawei NE40E, ATN900, CX600-X, Cisco ASR, Nokia SR, Juniper MX), **Firewalls** (Eudemon 8000E-X/1000-E), **NMS** (i-manager u2000, NCE-IP), BRAS (NE40E).
- **Network Protocols:** EIGRP, OSPF, ISIS, MPLS, MP-BGP, MPLS-TE, RSVP-TE, TCP/IP, DHCP, IPv6, AAA, Radius, L2VPN, IPSec, M-LAG, Gateway Redundancy (VRRP, HSRP), LACP, VPN FRR, EVPN, VXLAN, SD-WAN, NAT, ACL, SSL.
- **Certifications:** HCIP Datacom (Huawei Certified Internetwork Professional), CCNA, AWS Cloud Practitioner, NDG Linux Essential, CNSP (certified network security practitioner)
- **Relevant Coursework** Network Programming, Software Engineering, Cloud Computing, Advance Network and Cyber Security.
- **Areas of Interest:** Network and System Administration, Cybersecurity, Cloud Computing, DevOps, Distributed systems, Machine learning.

## PROFESSIONAL EXPERIENCE

**Florida Polytechnic University**

Lakeland, Florida

*Graduate and Research Assistant*

Aug 2024-Current

- Collaborate with Dr. Sarker, Conducting literature reviews, assisting with data collection and experiments, and utilizing relevant tools and techniques to support research objectives based on Cybersecurity, Network Security, Cloud, and Distributed system architecture.
- Maintaining detailed and accurate research records, preparing and contributing to reports and publications, and handling administrative tasks related to grading assignments (Object-oriented programming & Machine Learning) and lab assistance.

**Huawei Technologies Co., Ltd.**

Kathmandu, Nepal

*Network Engineer*

Dec 2021-Jul 2024

- Performed vulnerability and threat assessments for network management systems/servers serving over 15 million users, achieving 95% compliance.
- Conducted successful POC tests for Project delivery (Cloud, IP networks, and firewalls) with standard scripts, automation, and network reliability.
- Involved in high-level design (HLD) and low-level design (LLD) for telecom and enterprise infrastructure, incorporating security best practices.
- Managed routine operations and compliance checks of IP-RAN and Core Network serving 15M+ users, reducing network downtime by 30%.
- **TAC Engineer:** Resolved 50+ Service requests on complex network & infrastructure, including outage incidents and site stability, and collaborated with Global TAC (Egypt, Malaysia) and China R&D teams to restore & improve service quality and prepared subsequent RCA reports.
- Mentored junior, significantly improving skills through discussions of Network Cases and training on key topics such as Network Optimization, Troubleshooting, and Potential Network Upgrades.

**Huawei Technologies Co., Ltd.**

Kathmandu, Nepal

*IT Engineer*

Jul 2021-Dec 2021

- Maintained the 50+ Servers, performed OS & patch upgrades, service migration and utilized Fusion compute (K8s) to enhance application efficiency.
- Deployed Huawei E9000 blade server, virtualization, and managed virtual machine, & services for 15+ mid-scale enterprises providing Infrastructure as a Service (IaaS).
- Managed Environment provisioning solutions using Docker and automating deployment & scaling using Kubernetes for multiple clients.
- Automated IT tasks and server management using Ansible & Terraform, reducing manual workload by 20%.
- Assisted in source code management, version control, and integrating CI/CD pipelines in Azure to streamline the development process.

**Siparrow Technology Ltd.**

Itahari, Nepal

*IT Operation Engineer*

Oct 2020-Jul 2021

- Execute ticketing systems to manage and process support actions and requests for the client's cloud-based billing system, with customer satisfaction.
- Managed cloud and on-premise-based ERP systems and infrastructure for 20+ clients, ensuring smooth daily operations and resource optimization.
- Developed and maintained technical documentation, enhancing support quality for internal teams and customers.

## PROJECTS AND ACCOMPLISHMENT

- **Distributed Blockchain-Based Voting Network (2024):** Deployed in hyperledger fabric, tools used VS code, docker, docker-compose, Prometheus, fabric API, golang/go (smart contracts) and PKI cryptography techniques such as encryption, digital signature, RSA for security.
- **POC Test and NCE-T Network Management Server Deployment (2024):** Taishan 200 (Model 2280) Server OS configuration (Eulor OS) and Core network interconnection, with Disaster Recovery site deployment. DWDM node NMS services Migration to NCE Cloud Platform subsequently followed by Nodes upgradation and 400G POC Test.
- **Point of Interconnection Deployment (2023):** Involved in Nepal Telecom Non-SDN 2-layer architecture deployment for cloud computing and scalability services, implemented server virtualization, networking Evpn with vxlan, fusion compute for containerization and orchestration.
- **Axiata IPRAN/IPCore Migration Project (2023):** High-level designing (HLD), Device Role change, and Service migration to aggregation nodes of 150+ sites deployed in HoVPN IPRAN network with region-wise Spoke/Hub model for link reliability, MP-BGP/MPLS RSVP-TE 3 layer network architecture.

## HONORS AND AFFILIATIONS

- **Gallopig Horse Award,** Huawei Appreciation for Outstanding Performance and Project Delivery. 2023
- **Emerging Star and Excellent New Talent of the Year,** Presented at Huawei Annual event in Kathmandu. 2021-2022