

# Dhairya N Bhatt

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## EDUCATION

Master of Science, Cybersecurity | University of Houston | GPA: 3.9  
Bachelor in Electronics and Communication | GTU | Gujarat, India

Aug 2021 - May 2023  
Aug 2017 - Jul 2021

## SKILLS

**Tools:** Packet Tracer, GNS3, Wireshark, Kali Linux, SQLite, Nmap, Metasploit, Burpsuite, Netcat, Nessus, Kibana, Elasticsearch  
**Exposure to:** Python, C, SQL, Ladder logic, TryHackMe (Top 5%), Vulnerability assessment, OWASP Top 10, CTF's, Splunk  
**Technical:** Routing and Switching, ASA firewall, Network security, Network Automation, ICS (SCADA / DCS)  
**Research topics:** Web 3.0, Semantic web, Blockchain, Decentralized database, Decentralized Apps (Dapps).  
**Volunteering:** GISO Volunteer, Volunteer - HouSecCon 2021, Member - UH WiCyS, Member - UH Ethical Hacking club

## CERTIFICATION

Security+ (Sy0-601) | CompTIA  
Cisco Certified Network Associate Routing and Switching (200-301) | Cisco

Sept 2022  
Feb 2022

## PUBLICATIONS

Web 3.0 Based Supporting Platform for Healthcare: A Review | Health and Technology (Under-publication)  
Use of Public-Key Cryptography in Crypto-Malware: A Survey | International Journal of Information Security (Under-publication)

## PROFESSIONAL EXPERIENCE

**Student Trainee (OT Security) | W - Industries**

Aug 2022 – Jan 2023

- Implemented advanced security techniques, controls, and architecture to enhance the overall security posture and meet compliance and audit requirements.
- Collaborated closely with the security team and clients to identify and mitigate 4+ vulnerabilities by reviewing security architecture and implementing remediation measures.
- Created and maintained comprehensive documentation for security systems and procedures to ensure proper usage and compliance with industry standards.

**Security Instructional Assistant | University of Houston**

Aug 2022 – Jan 2023

- Proficiently diagnosed and troubleshoot a variety of SCADA equipment in a laboratory setting under the guidance of a professor, effectively documenting procedures for future reference and training of industry professionals.
- Demonstrated strong leadership skills by effectively leading and training over 100 undergraduate students in laboratory work, imparting knowledge of programs such as Wireshark and Hashing Labs. Assisted professor in evaluating and assessing student laboratory performance, contributing to their overall success.

**Network Security Engineer | Sigma Trainers and Kits**

Jan 2019 - Jun 2020

- Provided consistent guidance and mentorship to over 45 junior students throughout an internship program, effectively covering advanced networking topics such as MPLS, BGP, OSPF, IP-Sec, CSMA/CD, and Firewall.
- Contributed to network security by installing, configuring, and maintaining networking devices and acquired proficiency in Network Automation and CCNP Routing & Switching, resulting in efficient and streamlined configuration of networking equipment.

## PROJECTS

**MPLS cloud using Multi-protocol Routing and VRF packet switching for Banking network**

Dec 2019 - May 2020

- Combined 4 different technologies - MPLS, VPN, VRF, and MBGP, to form a network that provides real-time solutions to a variety of issues like Jitter problem, Delay and Security.
- Implemented a fictitious financial network with 4 banks and 2 branches (Two banks per branch), Emphasizing how important it is to use MPLS for the banking industry.

**Tech stack:** MPLS (Multi-protocol label switching), BGP (Border Gateway Protocol), OSPF, EIGRP, GNS3, VMware.

**RSA Based Network Encryption Security on WAN Technology using Telnet and Secure Shell**

Aug 2018 - Jul 2019

- Studying the comparison between safe data transfer over Wide Area Network and remote login with Telnet technology and SSH to conclude how SSH is more secured protocol.
- Connected 4 routers in series, with 2 PCs connected to each end router, directing one set of PC to Telnet and other to SSH to perform simulation in GNS3 and analysing the packet flow in Wireshark.

**Tech stack:** Telnet, SSH, OSPF protocol, GNS3, Wireshark.

## Extra-Curricular

- Lead District-level Volleyball team for consecutively 3 years.
- Won 1<sup>st</sup> prize in Freestyle Swimming competitions for 2 years.
- Achieved Bronze medal in State Science Olympiad competing with more than 5000+ People.