Sparsha Poudel

Cybersecurity Student | CTF Creator | Python Developer

Kathmandu, Nepal | sparshapoudel44@gmail.com

GitHub: SparshaPoudel | LinkedIn: Sparsha Poudel | TryHackMe: keyboardwarrior404

PROFILE

Cybersecurity student at Softwarica College with hands-on experience in Python security tools, network analysis, OSINT and CTF challenge design. Team Lead and Practice Lead at NetanixCTF, coordinating challenge authors and mentoring community members. Open to internships and cybersecurity collaborations.

TECHNICAL SKILLS

Programming: Python, Bash, JavaScript, SQL, HTML/CSS; Tkinter, Typer, Jinja2, SQLite.
Security & networking: OSINT, web security, TCP/IP, packet analysis, port scanning; Nmap, Wireshark, Burp Suite, Metasploit, Hashcat.
Systems & development: Kali Linux, Ubuntu, Windows, VirtualBox, VMware, Git/GitHub, pytest.
Security implementation: Fernet encryption, HMAC-SHA256, PBKDF2, replay prevention, rate limiting.

LEADERSHIP & COMMUNITY

NetanixCTF | Team Lead & Practice Lead | Ongoing

Coordinate challenge authors for competitive CTF tournaments. Design OSINT trails and reconnaissance challenges, and mentor community members in cybersecurity fundamentals and problem-solving methods.

SELECTED PROJECTS

SafeChat | Python, Tkinter, Fernet, HMAC-SHA256, pytest

Built a secure local messaging application for college coursework with salted PBKDF2 password hashing, encrypted messaging, signed messages, nonce/timestamp checks and token-bucket rate limiting. Implemented custom data structures and 107 unit and integration tests across 14 test classes.

GhostWrite | Python, Typer, Rich, Jinja2, SQLite

Developed a CLI for capturing commands, notes and flags during CTF and pentesting sessions. Added project isolation, automatic tool-based tagging, timeline views and Markdown/HTML report exports.
github.com/SparshaPoudel/Ghostwrite

Packet Sniffer with GUI | Python, Raw Sockets, TCP/IP

Collaborated with Pratik Prasai and Rupak Raj Pandey on a Semester 3 project to capture and visualize live network packets for protocol analysis.
github.com/SparshaPoudel/Packet_sniffer_in_Python_with_GUI

Python Port Scanner | Python, Sockets

Built a socket-based TCP scanner to identify open ports and explore service enumeration and network reconnaissance.
github.com/SparshaPoudel/Port-scanner

EDUCATION

BSc (Hons) Ethical Hacking & Cybersecurity

Softwarica College of IT & E-Commerce, Kathmandu | Affiliated with Coventry University, UK
Semester 5 of 6 | Year 3 | Expected completion: 2026-2027
Focus: network security, penetration testing, cryptography and secure programming.

CERTIFICATIONS & ACHIEVEMENTS

HackAstra CTF 2026: Ranked 30th of 455 teams (top 7%) with team neta in the online qualifying round, May 29-30, 2026. Certificate of Achievement.
TryHackMe Pre Security: Completed May 5, 2025. Networking, Linux, web fundamentals and introductory security labs. Certificate: THM-SVQUCQZCKX.