

# Harsh Bhogayata

## Cybersecurity Student

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## Professional Summary

Results-driven **Cybersecurity Analyst** with a portfolio of custom security tools. Specialized in offensive security, network defense, and infrastructure hardening. Proficient in Python scripting for security automation, web penetration testing, and digital forensics. Currently pursuing an MCA with a focus on cryptographic protocols and secure network architecture.

## Core Competencies

Security	Network Defense, Web Penetration Testing (OWASP), Digital Forensics, Vulnerability Assessment
Tools	Wireshark, Nmap, Metasploit, Burp Suite, Hashcat, FTK Imager
Development	Python (Security Scripting), Bash Automation, HTML/CSS, Git/GitHub
Concepts	Cryptography, TCP/IP Networking, OSINT, Incident Response, Risk Management

## Technical Projects

- 2024 **Password Strength & Policy Auditor**, *Python/Web*  
**URL:** [harshbhogayata.github.io/pages/tools/password-checker.html](https://harshbhogayata.github.io/pages/tools/password-checker.html)  
Developed a client-side security tool to analyze password entropy and compliance against NIST guidelines. Implements complex regex patterns to detect weak credentials and prevent common dictionary attack vectors.
- 2024 **Network Subnet Calculator**, *Network Utility*  
**URL:** [harshbhogayata.github.io/pages/tools/subnet-calc.html](https://harshbhogayata.github.io/pages/tools/subnet-calc.html)  
Designed a CIDR notation calculator to assist in secure network segmentation and optimize IP allocation. Features real-time calculation of subnet masks, wildcard masks, and broadcast addresses for infrastructure planning.
- 2023 **Cryptographic Hash Generator**, *Data Integrity*  
**URL:** [harshbhogayata.github.io/pages/tools/hash-generator.html](https://harshbhogayata.github.io/pages/tools/hash-generator.html)  
Built a utility to generate and verify MD5 and SHA-256 hashes. Used for file integrity monitoring (FIM) and validating digital evidence during forensic investigations.

## Education

- 2024–Present **Master of Computer Applications (MCA)**, *Parul University, Vadodara*  
Specialization in Cybersecurity. Researching advanced network defense strategies.
- 2020–2023 **Bachelor of Commerce (B.Com)**, *The Maharaja Sayajirao University of Baroda, Vadodara*  
Major in Human Resource Management. Focused on organizational behavior, corporate compliance, and strategic personnel management.

## Certifications

- In Progress **Google Cybersecurity Professional Certificate**, *Google, Coursera*
- Preparing **CompTIA Security+**, *CompTIA*

## Interests

- Focus Zero-day Vulnerability Research, CTF Competitions, Open Source Intelligence (OSINT)