

# Yash Gholap, Cybersecurity Professional

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## PROFILE

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B.E. Computer Engineering graduate (Mumbai University, 2021–2025) with a specialization in Cybersecurity, IoT, and Blockchain Technology and hands-on experience in penetration testing, red teaming, and security research. Proven ability to identify vulnerabilities, develop security-focused tools, and conduct malware analysis through practical projects and Capture The Flag competitions. Adept at learning new technologies quickly and driven by a strong interest in offensive security, threat research, and secure system design.

## INTERNSHIPS

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### Cybersecurity Intern

Nullclass

Jun 2025 – Aug 2025

Performed penetration testing, vulnerability research, exploitation, and technical reporting.

### Web Development Intern

Internpe

Jan 2024 – Feb 2024

Responsive Website Development

## EDUCATION

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### Bachelor of Computer Engineering

Specialisation in CyberSecurity, IoT & Blockchain Tech, Mumbai University, Mumbai  
Jan 2021 – Jan 2025

### Higher Secondary Certificate

Panna English High School and Junior College, Badlapur  
Mar 2019 – Mar 2021

### Secondary School Certificate

Wisdom English High School, Murbad  
Mar 2018 – Mar 2019

## PROJECTS

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### MD5 Malware Scanner

GUI-based malware scanner (Python/Tkinter) detecting malicious files via MD5 hash signatures. Scans local directories against known malware fingerprints.

### Password Manager using SHA256 and 2FA

Python password vault with encryption and hashing. Features password generation, strength checking, and 2FA.

### Image Steganography Tool

Python CLI to hide/extract secret messages in images using LSB steganography via the Pillow library.

### ScanForge: Advanced TCP Port Scanner

SYN scanner using Scapy across IP ranges and ports. Multithreaded with optional banner grabbing to identify running services.

### Auto MAC Changer

Linux tool rotating a network interface's MAC address at configurable intervals. Supports random/OUI-based MAC, logging, dry run, countdown, and safe restoration.

### Arche: Secure Personal Operations Vault

Offline-only mobile app for sensitive data and encrypted journals. Zero-trust architecture with local encryption, biometric auth, and a modular multi-protocol operations console.

### Discord-Based RAT Development

Built a Remote Access Trojan (RAT) for malware research in isolated research environment. Implemented remote command execution, file transfer, screenshot capture, persistence mechanisms, system reconnaissance. Evaluated endpoint detection and malware analysis techniques in controlled environments.

### Android Malware Development

Built Android malware prototypes in isolated research environments for security research and threat emulation. Implemented data collection modules, location tracking, notification monitoring, input capture, and centralized C2 communication for malware behavior analysis.

## SKILLS

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Languages: Python, C/C++, Bash, PowerShell, SQL, Nim

Tools: Burp Suite, Nmap, Wireshark, Metasploit, BloodHound, sqlmap, Nessus/Openvas, Impacket, sliver

Linux Administration

Active Directory Fundamentals

Network Protocols & OSI Model

MITRE ATT&CK

Vulnerability Assessment & Penetration Testing

Malware Development & Binary Analysis

Web Application Penetration Testing

Open Source Intelligence (OSINT)

OWASP Top 10

Version Control with Git

## CERTIFICATES

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• CEHv13 (EC-Council)

• Google CyberSecurity Professional

• MCRTA (Multi-Cloud Red Team Analyst)

• Web Red Team Analyst (Web-RTA)

• Mastering Injection Vulnerabilities

• EnPT (Specialisation in penetration testing)

• CRTA (Certified Red Team Analyst)

• CPIA (Certified Process Injection Analyst)

• Mastering Authentication Vulnerabilities

• Hack Real-Time Operating Systems