SAHIL SHAILESH ZUNJARRAO

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GitHub: Sahil-13082003 | LinkedIn: sahilzunjarrao | *F-1 Student* | *CPT Eligible* | *STEM OPT Eligible*

EDUCATION

Master of Science in Cybersecurity *Sep 2025 – May 2027*
New York University, Tandon School of Engineering, Brooklyn, NY GPA: 3.88/4.0
Coursework: Vulnerability Assessment & Penetration Testing, Application Security, Network Security, Information Systems Security Management | Research: OSIRIS Lab, ROS2/SROS2 Security

Bachelor of Technology in Cybersecurity *May 2025*
Shah and Anchor Kutchhi Engineering College, Mumbai GPA: 3.7/4.0

TECHNICAL SKILLS

Security: Vulnerability Management, Vulnerability Assessment, Threat Detection, Threat Hunting, SIEM, Incident Response, IOC Analysis, Threat Intelligence
Networking: TCP/IP, DNS, Routing, Firewalls, Network Troubleshooting, Wireshark
Operating Systems: Windows, Ubuntu Linux, Kali Linux, WSL
Tools: Splunk, Nessus, Nmap, Burp Suite, Metasploit, Autopsy, FTK, Git
Programming: Python, Go, Bash
Cloud: AWS (IAM, EC2, S3), Cloud Security Fundamentals
Frameworks: MITRE ATT&CK, NIST CSF, OWASP Top 10, ISO 27001

CERTIFICATIONS

ISC2 Certified in Cybersecurity (CC)
Google Cybersecurity Professional Certificate
Fortinet NSE 1
Fortinet NSE 2

EXPERIENCE

Cybersecurity Analyst Intern *Jun 2024 – Dec 2024*
Maharashtra Cyber, Government Cybercrime Unit, Mumbai

- Investigated 30+ digital evidence samples using Autopsy and FTK, identifying attacker techniques, indicators of compromise, and exploitation vectors supporting fraud and phishing investigations.
- Triaged 15+ cybercrime complaints end-to-end, analyzed incident patterns, coordinated response actions, and maintained chain of custody with approximately 50% resolution rate.
- Produced forensic reports and threat intelligence documentation for phishing, synthetic fraud, digital impersonation, and other cyber-enabled investigations.

Cybersecurity Research Intern *Apr 2023 – Dec 2023*
CyberFrat, Mumbai

- Led a 4-member team to 1st place in a Pan-India cybersecurity hackathon by demonstrating EternalBlue SMB exploitation in a controlled environment.
- Performed buffer overflow exploitation and payload development to strengthen defensive detection strategies.

OPEN SOURCE CONTRIBUTIONS

gittuf (OpenSSF) | *Secure Systems Lab, NYU* | Merged PR #1457 | Merged PR #1490

- Contributed two merged pull requests to the OpenSSF `gittuf` project by expanding automated test coverage for security-critical components.
- Added Go test coverage for DSSE `VerifyEnvelope` error handling and Lua sandbox `RunScript`, covering previously untested execution paths and increasing overall project test coverage.
- Collaborated with OpenSSF maintainers through multiple code review iterations to refine the implementation and align with project testing standards and Go best practices.

ACADEMIC SECURITY PROJECTS

Medical IoT Security Assessment, Infant Incubator System | *ISSEM, NYU Tandon* *2025–2026*

- Conducted a vulnerability assessment of a networked medical device simulator using STRIDE threat modeling.
- Identified nine vulnerabilities, including SQL injection, AES nonce reuse, race conditions, and missing rate limiting, with remediation recommendations.

PROJECTS

Autonomous Security Intelligence Agent | GitHub

- Built an AI-powered security agent using Google Gemini 2.5 Flash API to identify vulnerabilities, map CVEs, generate CVSS-based remediation reports, and automate security workflows.
- Developed Python-based automated scanning and reporting workflows for live network environments.

Web Vulnerability Scanner | GitHub

- Developed a Python-based OWASP Top 10 vulnerability scanner covering SQL injection, XSS, CORS misconfiguration, and SSL/TLS analysis.
- Generated HTML and JSON reports with severity ratings and prioritized remediation recommendations.