

Yash Suhas Shinde

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Technical Activities

JerseyCTF (Participant)

New Jersey, USA

- Solved different CTF challenges by finding hidden flags, using forensic investigation tools such as Autopsy and Forensic Toolkit.
- Analyzed web server logs for anomalies and vulnerabilities to exploit them to reach the goal.

Homelab

New York, USA

- Designed a robust virtual network using tools such as pfSense and Suricata for experimentation with various network attacks, configuration of firewalls, and vulnerability scanning to mimic various real-world security scenarios.
- This will be extended to a home server setup using the NAS drive for efficient management of personal storage.

CTF club member @SUNY Binghamton

New York, USA

- Engaged in solving CTF-related challenges in cryptography, reverse engineering, and digital forensics.
- Participated in team-based problem-solving sessions to enhance technical skills and practical knowledge in cybersecurity.

Work Experience

SUNY Binghamton

New York, USA

Research Intern

July 2024 -

- Improved data security by deploying and configuring Passbolt on AWS, securing data access with SSL, and automated backups for personal use.
- Designed and managed a customized firewall, introducing advanced security features that helped enhance the understanding of network protection and access control.

Trace Labs

Vancouver, CA

Volunteer Coach

Nov 2024 -

- Mentored teams in Search Party CTFs, driving collaboration, and guiding participants in OSINT to find flags related to actual missing persons cases.
- Community impact is enhanced by support for intelligence vetting, learning of innovative approaches toward OSINT, and knowledge-sharing among participants with varied skills.

Certifications

ISC2 Certified in Cybersecurity: [ISC2](#)

Dec 2024

CompTIA Security+ SY0-701: [CompTIA](#)

Aug 2024

Google Cybersecurity Professional Certificate: [Coursera](#)

May 2024

Entrylevel Virtual Experience program for Data Analyst: [Entrylevel](#)

Aug 2021

Projects

Secure Election Booth

Sep 2023 - Mar 2024

- Designed an E.V. system with secure SSL encryption and one-time voting, hence enhancing voter anonymity and integrity through the elimination of unauthorized vote duplication.
- Implemented multi-threaded client-server communication to improve system responsiveness and reinforce security on the server through public-key certificate generation.

Web Proxy Server

Aug 2022 - Nov 2022

- Designed a multithreaded web proxy server that supports caching and validation, reducing server response time by 25% while maintaining data consistency with a 120-second cache expiration policy.
- Improved reliability due to effective socket programming, the accuracy of data is higher, and the speed of retrieval of data is increased.

Location of New Store Detection

Aug 2021 - Apr 2022

- Optimized database queries by 12%, thereby optimizing the whole backend processes and giving seamless experiences on the web interfaces.
- This paper was selected for technical presentation at the ICATM conference and reflects a valuable technical insight analysis into the project.

Enterprise Network Design for College

Aug 2021 - Dec 2021

- Planned and developed a scalable and secure network infrastructure for a college, ensuring efficient IP assignment and centralized cloud storage to increase the reliability of the network by 40%.
- Reduced potential for downtime with a strategic network plan, high performance, and secure data access.

Education

SUNY Binghamton

May 2024

Masters, Computer Science

University of Mumbai

May 2022

Bachelor of Engineering, Information Technology

Skills

Incident Response | Security Monitoring | SIEM Solutions | Log Management | Vulnerability Management | OpenVAS | Suricata | Autopsy | FTK Imager | Ghidra | AWS | Azure | Python | Java | Computer Networking | Access Control | Network Security | Security Policies | Threat Analysis | Kaze Scenarios | OSINT | Redstone engineering(Minecraft) | Cloud Security | Firewall Configuration | Cryptography | Web Security | Data Security | Reverse Engineering | SOC