

Mayukh Paul

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EDUCATION

Yeshiva University, Katz School of Science and Health, New York, NY

Dec 2025

Master of Science in Cybersecurity

GPA : 3.94

Relevant Coursework : Cybersecurity Foundations, Network, Data and Communications Security, Risk Management and Cybersecurity, Cybersecurity Audit, Assessment and Training (Cloud Security), Leading Technology Organizations, Cybercrime, Cyberwar and Threat Actors

Indian Institute of Information Technology Bangalore, Bengaluru, India

2024

Advanced Certified Programme in Cybersecurity

GPA : 3.76

Relevant Coursework : Information Security and Applied Cryptography, Network Security in Ethical Hacking, Application Security in Ethical Hacking, Advanced Concepts in Cyber Security

Visvesvarya Technological University, Bangalore Technological Institute, Bengaluru, India

2023

Bachelor of Engineering in Computer Science and Engineering

GPA : 3.29

Relevant Coursework : Data Structure and Applications, OS and Computer Organization, Cyber Laws & Ethics, Microcontroller and Embedded System, Data Communication and Network Security, DBMS, Python and Unix Programming, Cloud Computing, AI and ML, Cryptography, IoT

PROJECTS

Social Engineering Attack Simulation and Defense Framework

Capstone Project, In Progress

- Developing a research-based simulation and defense system covering phishing, tailgating, impersonation, baiting, XSS, clickjacking, and malware-based social engineering.
- Includes awareness training modules, reporting dashboards, and technical countermeasures.

Multi-Factor Authentication Using IoT

Dec 2022 – Feb 2023

- Designed a multi-layered authentication system for ATM transactions including fingerprint scans and color pattern match.
- Integrated alert systems to enhance fraud prevention and law enforcement response.

Crime Investigation Framework

Sept 2021 – Dec 2021

- Developed a framework integrating IP tracking, blacklist checking, and email header analysis to streamline cybercrime investigations.

EXPERIENCE

Cybersecurity Intern, VIEH Group, Mumbai, India

Sept 2021 – Dec 2021

- Developed a centralized platform with integrated cybercrime investigation tools including blacklist checking and header analysis.
- Improved response accuracy and streamlined investigator workflows.

Technical Intern, World Cyber Security Forum, Delhi, India

Jul 2021 – Sept 2021

- Authored technical articles on offensive security and cybersecurity practices.
- Notable piece: Bypassing Windows Face Recognition without facial reconstruction.

Junior Cybersecurity Analyst, National Cybersecurity Services, Kolkata, India

Jan 2020 – Aug 2020

- Assisted in network monitoring, log analysis, and vulnerability assessments to identify potential threats and weaknesses.
- Supported incident response activities by collecting evidence, documenting events, and contributing to remediation efforts.

TECHNICAL SKILLS

Coding Languages and related technologies – Java, Python, C/C++, Django, MySQL

Cybersecurity Tools – Metasploit, Burp Suite, Nessus, Wireshark, Shodan, AWS, Sysmon, Velociraptor, Procmon

Techniques – Penetration Testing, OWASP Top 10, Ethical Hacking, Vulnerability Scanning, NIST 2.0

PUBLICATIONS

Spynote – Android Hacking, Hakin9 Magazine	<i>Mar 2022</i>
Mining Information Using SpiderFoot – SOCMINT for Hackers, Hakin9 Magazine	<i>Apr 2022</i>
Simple Android Ransomware and Mrs. Major Virus – Ransomware and Vulnerability Management, Hakin9 Magazine	<i>May 2022</i>
Crawling Websites Using Burp Suite – Burp Suite for Hackers, Hakin9 Magazine	<i>Jun 2022</i>
Cracking Passwords Using John the Ripper – Best Hacking Techniques, Hakin9 Magazine	<i>Jul 2022</i>
Brute Forcing Using Hydra – Brute Forcing and Supply Chain Attacks, Hakin9 Magazine	<i>Nov 2022</i>
Phishing Using NexPhisher – Targeted Phishing Attacks, Hakin9 Magazine	<i>Dec 2022</i>

BLOGS

Bypassing Windows Face Recognition Without Being a Shapeshifter – World Cyber Security Forum	<i>Aug 2021</i>
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VOLUNTEER EXPERIENCE

Mentor, Cyber-Seniors	<i>Feb 2024 – Present</i>
<ul style="list-style-type: none">• Provide one-on-one guidance to senior citizens on cybersecurity best practices and safe technology use.• Help bridge the digital divide by promoting digital literacy and cyber awareness among older adults.	

HONORS & ACHIEVEMENTS

3rd Place – ISACA 2025 Case Study Competition
<ul style="list-style-type: none">• Led a 4-member team in developing a 3-year cybersecurity strategy for CyberArk, competing against 32 teams (163 participants) from diverse academic backgrounds.