

Gaurav Mukherjee

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EDUCATION

MIT World Peace University, Pune, India

B. Tech Computer Science Engineering (Specialization - Cyber Security and Forensics)

Aug 2021 - Expected Jul 2025

CERTIFICATIONS

- CSAM: CyberSecurity Asset Management – **Qualys** (May 2024)
- Cybersecurity Professional - **Google** (Apr 2024)
- Cybersecurity Specialist - **IBM and ISC2** (Mar 2024)
- CS50cy: CS50's Introduction to Cybersecurity - **Harvard University** (Dec 2023)
- Cyber Readiness and Leadership Employee Training - **Cyber Readiness Institute** (Dec 2023)
- Professional Workspace Administrator - **Google** (Oct 2023)
- IT Support Professional - **Google** (Jul 2023)
- Cyber Hygiene Practitioner - **Ministry of Electronics and Information Technology** (May 2023)
- Top Contributor - **Crowdsourc by Google** (Nov 2022)
- Geo Data Sharing and Cyber Security - **Indian Institute of Remote Sensing (IIRS) and ISRO** (Nov 2022)
- Cyber Security Training - **Ministry of Electronics and Information Technology** (Sep 2022)

PROJECTS

- **Fdrive** - Forensic Flash Drive to leverage **Remote Code Execution (RCE)** into extracting ephemeral data from targets
- **Wireless AP** - **IoT** based Access Point to perform **Evil Twin Attacks**, tested on 4 networks
- **IP Address Geolocator** – Simple yet robust script to detect the **Geolocation and Miscellaneous Information** from an IP

EXPERIENCE

Cyber Security Intern at Virtual Cyber Labs

(Jan 2024 - Apr 2024)

- Spearheaded a team of 15 dedicated interns to successfully address a **high-priority** server issue, enhancing system robustness and streamlining the project completion time from multiple days to under 8 hours.
- Conducted comprehensive **Open-Source Intelligence (OSINT)** investigations to gather data and identify potential suspects and sped up investigations by 80%.
- Gained **hands-on** experience with Windows **forensics**, applying techniques to investigate and mitigate 2 potential security incidents.
- Performed PCAP analysis using **Wireshark** to monitor network traffic, identify anomalies on 4 packet captures.
- Executed controlled **Phishing attacks** and found 30% of people are likely to fall prey to such attacks.
- Leveraged the **Mitre ATT&CK** framework and **OWASP Top 10** to understand and performed Cyber Threat Intelligence (CTI) activities in correspondence to the framework.

SKILLS AND TECHNOLOGIES

Information Security, Vulnerability Assessment, Penetration Testing, Digital Forensics, Incident Response, Disaster Recovery, Cybersecurity, Information Technology, Network Security, Cyber Threat Intelligence (CTI), Risk Management, Identity and Access Management (IAM), Security Information and Event Management (SIEM), Security Education Training and Awareness (SETA), Security Controls, Linux, Wireshark, Burp Suite, Metasploit, MySQL, Python, GitHub, Technical Leadership, Communication, Debugging, Public Speaking, Presentation, Consulting, Multilingual

OTHER EXPERIENCES

- **National Cadet Corps:** Officer's Attachment Camp, Independence Day and Republic Day Parades, 2 Blood Donation Camps, 2 Orphanage and Old Age Home Visits, Multiple treks.
- **Goldman Sachs:** Engaged in a job simulation for a governance analyst role, cracked password hashes to check their strength and found 13 out of 20 passwords were weak.
- **Mastercard:** Contributed to Mastercard's Security Awareness Team in a job simulation by identifying and addressing phishing related security threats and created a SETA program to target 75% of the HR team members who fell for phishing-based attacks.
- **Tata Consultancy Services:** Collaborated with Tata Consultancy Services in a job simulation on Identity and Access Management, showcasing expertise in cybersecurity and effective communication by implementing 3 solutions for our client.
- **Kendriya Vidyalaya:** Led the disciplinary committee of 5 as a Prefect of the High School with a strength 1500+ students.