Gaurav Mukherjee

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EDUCATION

Maharashtra Institute of Technology - World Peace University (MIT - WPU)   Pune, MH, India
Bachelor of Technology in Computer Science Engineering   (Aug 2021 - Jul 2025)
Specialization - Cybersecurity and Forensics
Award of Academic Excellence and Shri Gold Medal for Best Outgoing Student in CSE Across All Specializations

EXPERIENCE

Indian Air Force (IAF)   Pune, MH, India
Information Warfare Intern   (Dec 2024 - Jan 2025)
- Collaborated with Air Force officers by working on all 4 types of systems classified under Red, Blue, Green and Yellow levels based on data
- Trained over 100 Indian Air Force and Indian Army personnel by delivering a Security Education Training and Awareness (SETA) session
- Reduced maintenance cost by 90% by indigenously upgrading legacy Sukhoi-30 MKI mission computers
- Audited all 3 data access points of the air base by implementing CERT-IAF policies
- Supported air warriors in threat intelligence and espionage activities within the scope and interests of the Indian Air Force

Defence Research and Development Organization (DRDO)   Pune, MH, India
Project Intern   (Jul 2024 - Jan 2025)
- Implemented a backdoor and gained access to 20% of the Linux machines in use, reported misconfigurations and remediations to prevent such attacks
- Created a Security Orchestration, Automation and Response (SOAR) environment across 2 systems using LimaCharlie and detected test malware
- Led the training of 50+ scientists and Ministry of Defence officials by delivering a Security Education Training and Awareness (SETA) session
- Contributed to 2 confidential and 3 restricted projects by collaborating with senior scientists and technical officers

PROJECTS

- **Vinashak** - **Python** based **data destruction** tool using multiple overwrite passes inspired by the 35 pass Gutmann algorithm ensuring thorough **data deletion**
- **CoBRA** - **AI** driven **web scraping** tool that reduces password **search space by 75%** by generating **customized wordlists** for more efficient dictionary attacks
- **xpluiot** - **IoT** based tool that executes **Evil Twin attacks** by broadcasting 2 or more rogue access points, launching **deauthentication** attacks and deploying **phishing** pages
- **IP CLinfo** - lightweight yet robust **Python** script to determine **7 key parameters** (including geolocation) from any **IP address** enhancing reconnaissance capabilities

CERTIFICATIONS

- Cyber Ambassador - **ISEA, CDAC - Hyderabad and Ministry of Electronics and Information Technology** (Feb 2025)
- Cloud Cybersecurity - **Google** (Oct 2024)
- Cybersecurity Analyst - **Microsoft** (Jul 2024)
- CyberOps Associate - **Cisco** (Jun 2024)
- Cybersecurity - **Google** (Apr 2024)
- Certified Cybersecurity Specialist - **IBM and ISC2** (Mar 2024)
- CS50cy - **Harvard University** (Dec 2023)
- Cyber Hygiene Practitioner - **Ministry of Electronics and Information Technology** (May 2023)

SKILLS AND TECHNOLOGIES

Information Security, Vulnerability Assessment, Penetration Testing, Reverse Engineering, Information Warfare, 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