Ankit Singh

Pune, Maharashtra, INDIA

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Education

MIT World Peace University (MIT-WPU) **Aug 2022 – May 2026**

Bachelor of Science (Honors) in Cybersecurity ***CGPA: 8.4/10*** *Pune, Maharashtra, India*

Relevant Coursework

- Networking Fundamentals
- Penetration Testing
- Vulnerability Assessment
- Governance, Risk & Compliance (GRC)
- Operating Systems
- Artificial Intelligence
- Cyber Law & Ethics
- Digital Forensics
- Mobile & Wireless Security
- Cyber Threat Modeling

Experience

Bug Bounty Hunter **Feb 2025 – Present**

Independent Security Researcher (HackerOne, Bugcrowd, Intigriti) *Pune, Maharashtra, India*

- Identified and responsibly reported medium-severity vulnerabilities in web applications, demonstrating strong understanding of OWASP Top 10 risks.
- Performed manual and automated testing to uncover issues related to authentication, authorization, input validation, and misconfigurations.
- Triaged vulnerability findings and collaborated through coordinated disclosure programs to support timely remediation.
- Produced clear and detailed vulnerability reports including impact analysis, proof-of-concept steps, and remediation recommendations.

Projects

OSI Layer Visualizer | *Python, FastAPI, HTML, CSS, JavaScript* **Nov 2025**

- Developed a full-stack OSI Model–based web analysis tool providing end-to-end visibility across all seven layers (L1–L7) for website communication.
- Correlated application-layer HTTP behavior, TLS encryption details, session handling, transport-layer port connectivity, and network-layer DNS/IP/ASN data to analyze real-world traffic flow.
- Built a responsive frontend UI using HTML, CSS, and JavaScript to visually represent OSI layers in a clear and structured manner for SOC-style analysis.
- Followed ethical and non-intrusive reconnaissance practices, avoiding aggressive scanning while maintaining meaningful network and security insights.

Mini SOC & SIEM Alert Correlation Platform | *Python, FastAPI, React, Tailwind CSS, Linux* **Dec 2025**

- Designed and implemented a full-stack SOC platform to ingest, parse, and analyze security logs from multiple disparate sources, including Linux auth and web server logs.
- Engineered a custom normalization pipeline to convert heterogeneous log formats into a unified event schema, enabling cross-source correlation.
- Developed a stateful detection engine with **signal deduplication and cooldown logic** to accurately identify brute-force attacks and web reconnaissance while minimizing false positives.
- Built a modern **React-based analyst dashboard** featuring real-time threat visualization, incident triage workflows, and **automated PDF reporting**.
- Simulated enterprise SIEM capabilities by generating severity-scored alerts and enforcing incident lifecycle management (Open, Investigating, Resolved).

Technical Skills

Programming & Scripting: Python, Bash, C, HTML/CSS, JavaScript, SQL
Cybersecurity Tools: Burp Suite, OWASP ZAP, Nmap, Metasploit, Wireshark, Nikto, Hydra
OSINT & Recon: Shodan, theHarvester, Amass, Sublist3r, Recon-ng, Google Dorking
Platforms & OS: Linux (Kali, Parrot), Windows, Android
Technologies: FastAPI, Docker, GitHub, Jenkins, Google Cloud Platform
Security Domains: SOC Operations, SIEM Fundamentals, Network Security, Web Application Security, Digital Forensics, Threat Intelligence