ANSHUMAN SINGH

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CYBER SECURITY ANALYST

EDUCATION

- *MS in Cyber Security & Privacy*, New Jersey Institute of Technology (2022 - 2024)
- *BTech in Computer Science & Engineering*, Kurukshetra University (2015 - 2019)

PROFESSIONAL EXPERIENCE

Cyber Security Specialist, *Rebecca Everlene Trust Company (Aug 2024 - Present)*

- Devised and enforced a comprehensive cybersecurity policy for Rebecca's projects, boosting data protection, ensuring risk compliance (GDPR, CCPA, FERPA), enhancing incident response, and reducing platform vulnerability.
- Partnered with development teams to implement Role-Based Access Control (RBAC) and Multi-Factor Authentication (MFA), tightening access control, and significantly improving system security and user protection.

Data Protection & Privacy Researcher, *NJIT Ying Wu College of Computing (Sept 2022 - Jun 2024)*

- Spearheaded GDPR compliance efforts, identifying critical privacy vulnerabilities in healthcare apps, and engineered AI-driven detection methodologies that enhanced data protection.
- Audited over 10,000 Android apps, leveraging GitHub Copilot for secure code development, raising threat detection accuracy and regulatory compliance. [GitHub URL]

Cyber Security Analyst, *Infosys Ltd. (Nov 2019 - Jul 2022)*

- Performed in-depth CVE analysis, implementing mitigation strategies and optimizing security policies aligned with NIST and CISA standards, raising compliance by 40%.
- Trained 500+ employees on cybersecurity, strengthening phishing defenses, and securing infrastructure through real-time monitoring and rapid incident response.

CERTIFICATIONS AND PUBLICATIONS

- **AWS Certified AI Practitioner |** Amazon Web Services Training and Certification | Sept 2024
- **DDoS Attacks & Defense Mechanisms |** International Journal on Semantic Web and Information System | Jan 2022

SKILLS

- **Programming Languages & Scripting**: Python, Java, JavaScript, Bash, PowerShell
- **Cybersecurity Tools & Technologies**: YARA, Sigma, Nessus, Splunk, MITMProxy, GNS3, Android Debug Bridge, Kali Tool Suite, IDPS (Intrusion Detection and Prevention System), Access Control, Multi-Factor Authentication (MFA), Firewall, IPSec VPNs
- **Cloud Security**: AWS Tools, OAuth, IAM, Endpoint Vulnerability Management, Risk Management, SIEM
- **Operating Systems**: Windows OS, Linux (Ubuntu, Kali)

PROJECTS

- **Open Source Intelligence (OSINT) Gathering** [GitHub URL]
  - Designed a system for gathering and analyzing publicly available data on targets using Python, Recon-ng, theHarvester, and Shodan.
  - Integrated web scraping (BeautifulSoup) and browser automation (Selenium) to optimize data collection and visualization.
- **Automated Network Threat Detection and Analysis System** [GitHub URL]
  - Built an automated network threat detection system using Python, Wireshark, TCPdump, Scapy, and Nmap, enhancing analysis efficiency.
  - Leveraged ethical hacking techniques and OpenAI's GPT-3 API to deliver AI-powered threat analysis with real-time alerts.
- **Enterprise Network Simulation**
  - Developed network simulations in Cisco Packet Tracer to assess and strengthen defense mechanisms.
  - Delivered actionable insights to mitigate DDoS and MitM attacks, refining security strategy based on simulation outcomes.