

# ANSHUMAN SINGH

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## CYBER SECURITY SPECIALIST

### SUMMARY

Innovative and results-oriented cybersecurity specialist with extensive experience safeguarding digital assets and ensuring regulatory compliance. Proficient in designing robust security frameworks, mitigating vulnerabilities, and implementing AI-driven solutions to combat evolving threats. Adept at leveraging cutting-edge tools and cross-functional collaboration to enhance threat intelligence and incident response capabilities. Open to relocation across the U.S. and committed to driving cybersecurity excellence for organizations of all sizes.

### TECHNICAL SKILLS

**Operating Systems:** Windows Operating System, Windows Server Series, Linux Distributions, Cisco IOS, Mac Operating System, UNIX

**Security Tools:** Kali Suite, YARA, Nessus, Splunk, MITMProxy, Sigma, GNS3, Cisco Packet Tracer, Wireshark, Metasploit, Burp Suite, Snort, VMware, vSphere, Active Directory, Microsoft O365, Frida, Objection, Android Debug Bridge (ADB), Cowrie

**Programming & Scripting:** Python, Bash, PowerShell, Java, JavaScript, C Programming, Kotlin

**Cloud Security Platforms:** AWS Tools, IBM Cloud, Microsoft Azure Security, Google Cloud Security, Google Cloud Platform (GCP), OpenStack, Cloud Access Security Brokers (CASBs), Endpoint Security, IAM, SIEM

**Compliance & Regulatory Frameworks:** GDPR, HIPAA, NIST, CISA, ISO 27001, SOC 2, CIS Controls, COBIT, SANS Top 20, OWASP Top 10, Cyber Kill Chain, MITRE ATT&CK, Payment Card Industry Data Security Standard (PCI DSS), Federal Information Security Management Act (FISMA)

**Core Cybersecurity Skills:** Threat Intelligence, Incident Response, Vulnerability Management, Data Privacy, Log Analysis, Security Automation, Zero Trust Architecture, AI/ML in Cybersecurity, Digital Forensics, Networking

**Networking:** TCP/IP, IPv4, IPv6, SFTP, SSH, RDP, Load Balancing, DNS Resolution, Firewall Management (Cisco ASA, Palo Alto, Fortinet)

**Identity & Access Management:** SailPoint, Okta, CrowdStrike, Trend Micro, EDR Solutions, Sophos, CyberArk, Qualys

**DevOps & Automation Tools:** Ansible, Terraform, Kubernetes, CI/CD Pipelines, Git, GitLab, SVN, Artifactory, SonarQube, ELK Stack (Elasticsearch, Logstash, Kibana), Docker, OpenShift

**Databases:** MySQL, PostgreSQL, Microsoft SQL Server, MongoDB, Redis, Cassandra

**Monitoring & Analytics:** Zabbix, Nagios, Cacti, Datadog, SolarWinds, Google Analytics, Adobe Analytics

**Project Management & Collaboration Tools:** JIRA, Trello, Slack, Microsoft Teams, Confluence, Service Now, Remedy

### CERTIFICATIONS

- **AWS Certified AI Practitioner** (*Amazon Web Services, Sept 2024*) [[URL](#)]
- **CompTIA Security+** (*CompTIA, Dec 2024*) [[URL](#)]

### PROFESSIONAL EXPERIENCE

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

- Designed and implemented comprehensive cybersecurity policies and procedures across the organization, achieving full compliance with GDPR, CCPA, and FERPA standards.
- Spearheaded the deployment of Role-Based Access Control (RBAC) and Multi-Factor Authentication (MFA), reducing unauthorized access incidents by 30% and streamlining authentication workflows.
- Established and maintained an incident response framework, minimizing detection-to-resolution time for security breaches and reducing downtime by 20%.
- Partnered with IT and development teams to enforce secure software practices, aligning code reviews and deployments with OWASP Top 10 guidelines.
- Conducted regular threat assessments and vulnerability scans using Nessus and Burp Suite, mitigating over 85% of critical vulnerabilities and enhancing system resilience.
- Led company-wide security training initiatives, improving phishing detection rates by 40% and fostering a security-conscious culture.
- Monitored and analyzed network activity using Splunk, proactively identifying and resolving potential security breaches.
- Authored comprehensive compliance reports for internal and external audits, demonstrating improved security posture and achieving positive audit outcomes.

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

- Led a research initiative utilizing machine learning and natural language processing techniques to detect privacy violations in Android healthcare applications, assessing data sharing practices and retention policies.
- Performed comprehensive GDPR compliance audits for healthcare applications, identifying critical vulnerabilities and implementing AI-driven solutions to enhance data privacy.
- Audited and analyzed over 10,000 Android apps using tools like Frida and ADB, improving secure coding practices with GitHub Copilot and reducing compliance errors by 25%.
- Engineered AI-powered methodologies to evaluate the compliance of consent notices with GDPR requirements, uncovering discrepancies in data sharing and retention disclosures.
- Designed Python-based automated vulnerability assessment scripts, reducing manual analysis time by 60% and enabling faster and more accurate threat detection.
- Collaborated with cross-functional research teams to address emerging privacy challenges, successfully integrating solutions into active projects.
- Applied threat modeling techniques to preemptively identify and mitigate risks in application development, safeguarding sensitive data against breaches.
- Mentored graduate students on secure software development practices and regulatory compliance, cultivating a new generation of privacy-focused developers.

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

- Monitored and analyzed network traffic and system logs using SIEM tools like Splunk to identify potential threats and ensure compliance with organizational security protocols.
- Managed a queue of ServiceNow tickets, ensuring timely resolution of security-related requests and incidents while maintaining detailed documentation for audit purposes.
- Conducted routine vulnerability assessments and supported security audits, identifying misconfigurations and recommending actionable remediation strategies.
- Documented incident details, performed root cause analysis, and assisted in containment and recovery processes as part of incident response efforts.
- Collaborated with IT teams to configure firewalls, intrusion detection systems (IDS), and endpoint protection tools, ensuring alignment with organizational security policies.
- Authored and presented a research paper on Distributed Denial-of-Service (DDoS) attacks and defense mechanisms, analyzing attack trends and innovative mitigation strategies, published in IGI Global [\[URL\]](#).
- Delivered security awareness training to over 500 employees, reducing successful phishing attempts by 40% and fostering a security-conscious workplace culture.
- Designed and implemented automated scripts to streamline vulnerability scanning and reporting, reducing manual effort by 30% and improving report accuracy.

### **KEY PROJECTS**

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- **GDPR Compliance in Android Apps [\[URL\]](#)**  
Analyzed privacy and compliance violations in Android healthcare apps using ML and NLP models with tools like Frida, Objection, Scikit-learn, and ADB, identifying GDPR compliance issues in 70% of cases.
- **Open Source Intelligence (OSINT) Gathering [\[URL\]](#)**  
Developed a Python-based tool integrating Recon-ng, theHarvester, and Shodan to automate data collection and visualization for cybersecurity assessments, reducing manual effort by 50%.
- **Automated Threat Detection System [\[URL\]](#)**  
Created an AI-powered framework using Python and GPT-3 API to detect and respond to network threats in real-time, reducing detection time in simulated environments by 40%.
- **Enterprise Network Simulation**  
Designed virtual network architectures using Cisco Packet Tracer and Wireshark to simulate and test defenses against DDoS and On-path attacks, improving the resilience of test setups.
- **Honeypot Deployment and Threat Analysis with ELK Stack [\[URL\]](#)**  
Deployed an SSH honeypot with Cowrie and integrated it with an ELK Stack to capture, analyze, and visualize real-world cyberattacks, enhancing proactive threat detection capabilities.