

# DAVINDERNAIN SINGH SEHGAL

Cybersecurity | Governance, Risk & Compliance | Third-Party Risk | Security Strategy & Leadership

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## PROFESSIONAL SUMMARY

Cybersecurity professional with U.S. municipal-government experience and an MS in Cybersecurity (Northeastern University). Sole Cybersecurity Officer for the City of Boston's Boston Public Library, covering the Central Library, 25 branches and a multi-institution library network, reporting directly to the CTO and accountable for security strategy, incident response, governance, risk and metrics. Delivered a \$250,000 (~₹2.4 Cr) FCC security grant, 100% MFA coverage with a passwordless rollout, a 70% cut in malicious bot traffic and a 90% lift in phishing detection and reporting. Frameworks: NIST, CISA, ISO 27001. Seeking a senior GRC / security management role in Mumbai.

## KEY ACHIEVEMENTS

- **\$250,000 (~₹2.4 Cr)** FCC Cybersecurity Pilot Program grant won by leading research, documentation and a multi-department application.
- **100% MFA coverage** across the organization, with a passwordless (passkey) rollout, delivered through enforced controls, guides and training.
- **70% reduction** in malicious bot traffic and automated attacks through WAF deployment and tuning.
- **90% increase** in phishing detection and reporting over 8 months via recurring simulations and role-based training.
- **100+ end-of-life systems** retired or upgraded in a multi-year program, materially shrinking the attack surface.
- **End-to-end ownership** of security for 25+ locations and a multi-institution network, reporting directly to the CTO.

## CORE COMPETENCIES

Security Governance, Risk & Compliance • Third-Party / Vendor Risk • Incident Response & Playbooks • Policy & Standards (NIST, CISA, ISO 27001) • Identity & Access (MFA, Passwordless) • Vulnerability Management & Pen Testing • BCP / Disaster Recovery • Security Awareness & Phishing Simulation

## PROFESSIONAL EXPERIENCE

**City of Boston – Boston Public Library (BPL), Boston, MA, USA**

**Nov 2023 – Present**

*IT Cybersecurity Analyst & BPL Cybersecurity Officer*

*Sole security owner for the Central Library, 25 branches and the Metro Boston Library Network (MBLN), a multi-institution consortium; bridge between the City of Boston Cybersecurity Operations team and BPL leadership.*

- **Security accountability:** Cybersecurity Officer reporting directly to the CTO; single point of accountability for strategy, incident response, governance, audit, risk and cybersecurity metrics across 25+ locations.
- **Funding:** Secured a \$250,000 (~₹2.4 Cr) FCC Cybersecurity Pilot Program grant by leading research, documentation and the application with multiple departments, funding network security upgrades.
- **Third-party risk:** Established the security evaluation framework for new vendors, products and acquisitions; led risk assessments against NIST and CISA guidance covering controls, compliance, data protection, cost and business value before purchase.
- **Policy & governance:** Authored security standards and policies aligned with NIST and CISA to guide procurement, design, maintenance and retirement decisions; represented BPL in City of Boston security governance and advised IT leadership on emerging threats.
- **Incident response:** Directed response to a high monthly volume of incidents across Network, Server, Application, Help Desk and A/V teams, liaising with law enforcement and City counterparts; built scenario-specific IR, access-management and endpoint playbooks.
- **Identity security:** Led organization-wide MFA and passwordless (Microsoft Authenticator, passkeys) rollout to reach 100% MFA coverage through enforced controls, guides and training.
- **Risk reduction:** Led a multi-year program to retire or upgrade 100+ end-of-life servers and systems; ran vulnerability assessments and penetration tests (Nmap, Burp Suite, Metasploit); deployed and tuned a WAF that cut malicious bot traffic by 70%.
- **Resilience:** Directed business continuity and disaster recovery planning, documenting and testing recovery procedures with the Server and Network teams.
- **Awareness:** Ran phishing simulations and training that raised phishing detection and reporting by 90% over 8 months; taught public cybersecurity literacy sessions across branches.

- **Security by design:** Worked with Server, Network and Web Services teams to build security into system installation, configuration and maintenance; designed separate risk-based configurations for public-access and staff computers; point of contact for external vendors on issues beyond internal scope.

#### **Village Book Builders (Non-Profit), Boston, MA, USA**

**Apr 2023 – Nov 2023**

##### *Cybersecurity Associate (Volunteer)*

- Developed security policies and SOPs on the ISO 27001/27002 framework; ran cross-functional risk assessments that cut projected impact costs by over \$130,000 (~₹1.25 Cr).
- Built ransomware-specific incident response plans and delivered company-wide IT risk training for full-time and part-time staff.

#### **Commonwealth Financial Network, Waltham, MA, USA**

**Jan 2023 – Apr 2023**

##### *Information Security Capstone*

- Built an operational risk register and monitoring system (Trello, Jira, Power BI) across 7+ departments on Agile 3-week sprints; authored training material and technical documentation.

#### **YourDigitalBro Pvt Ltd, Mumbai, India**

**Sep 2020 – Jun 2021**

##### *IT Security Intern*

- Deployed firewalls, IDS/IPS and event monitoring, raising proactive detection and response capability by 35% and cutting unauthorized access attempts by 50%.
- Administered infosec policies protecting PII for 550+ clients monthly; security awareness training cut phishing and malware incidents by 25%.

#### **Freelance, Mumbai, India**

**Aug 2018 – May 2021**

##### *IT Consultant*

- Secured 87 clients with anti-malware and encryption controls, trained 50+ on phishing and MFA, and resolved 95% of issues within 24 hours.

## **EDUCATION**

#### **MS Cybersecurity – Northeastern University, Boston, MA, USA**

**May 2023**

*Coursework: Security Risk Assessment & Audits, Security Governance Risk & Compliance (Cyberlaw), Network Security, Software Vulnerabilities, Digital Forensics, Critical Infrastructure*

#### **BSc Computer Science – University of Mumbai, Mumbai, India**

**Jun 2021**

## **TECHNICAL SKILLS**

**Frameworks & Compliance:** NIST 800-30/800-53, CISA, ISO 27001, GDPR, HIPAA, HITRUST, PCI DSS, SOC 1, SOX, COBIT, OWASP, MITRE ATT&CK, NICE

**Security Tools:** Microsoft Defender, SentinelOne, Splunk, QRadar, Nmap, Wireshark, Metasploit, Burp Suite, pfSense, Snort, WAF, FTK Imager, Autopsy

**Cloud & Languages:** AWS, Microsoft Entra ID; SQL, Python, Java, Bash

## **SELECTED PROJECTS (NORTHEASTERN UNIVERSITY)**

- **Security Risk Assessment:** Qualitative and quantitative assessment (NIST, HGA case study) of threat-vulnerability pairs against assets valued over \$600,000.
- **GRC Response to Ransomware:** Research paper consolidating 5+ prevention and response methodologies into GRC best practices.
- **Incident Response Playbook:** Team guidelines across all NIST IR phases for unauthorized access, SQL injection and data leaks.
- **Digital Forensics:** FTK Imager and Autopsy investigations of insider-threat and malware scenarios with chain-of-custody discipline.

## **PROFESSIONAL DEVELOPMENT & AFFILIATIONS**

- **In progress:** CISSP – self-study completed across all 8 domains.
- **Affiliations:** Member of (ISC)<sup>2</sup>, SANS and MS-ISAC.
- **Hands-on programs:** TryHackMe Jr. SOC Analyst (Level 1); AIG Shields Up (incident response team lead); Mastercard (phishing campaign analysis).

**Languages:** English, Hindi, Marathi, Punjabi | **Notice period:** 30–45 days (negotiable) | **Preferred location:** Mumbai / Thane

**Interests:** Music (ukulele, music production), emerging technology, competitive and RPG gaming, travel, film/TV and anime.