Sanjeev Kumar Paul

Cybersecurity & Compliance Professional — Cryptography & Secure Systems

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Professional Summary

Cybersecurity and compliance professional with **3+ years of experience** delivering cryptographic and security certifications for enterprise-grade products. Proven expertise in **FIPS 140-3, NDcPP, NIST standards, cryptographic validation**, and cross-functional project delivery. Strong technical background in secure systems, protocol testing, and security documentation, with growing experience in secure virtualization infrastructure and AI-assisted solution delivery.

Professional Experience

Project Management Compliance Analyst   *Feb 2025 – Present*
Fortinet — Ottawa, Canada

- Lead multiple global, cross-functional compliance projects supporting enterprise security products under the **CMVP IUT program**.
- Coordinate project planning, execution, and evidence delivery across engineering, QA, and independent test laboratories.
- Drive **NDcPP v4 transition** initiatives, performing requirement analysis and alignment with SSH, TLS, and X.509 Functional Packages.
- Deploy and manage **KVM-based virtualized environments** to support secure testing, certification validation, and product readiness activities.
- Ensure delivery timelines, documentation quality, and adherence to Common Criteria and NIST security standards.

Junior Project Management Compliance Analyst   *Feb 2023 – Feb 2025*
Fortinet — Ottawa, Canada

- Led certification initiatives that resulted in **Fortinet's first-ever FIPS 140-3 certification for a VPN solution**, establishing a critical compliance milestone for the organization.
- Managed end-to-end compliance efforts for Endpoint Security and Web Security Gateway solutions.
- Conducted **ACVP testing** for cryptographic algorithms including AES, RSA, SHA, HMAC, and ECDSA.
- Validated cryptographic modules in FIPS mode across virtualized and hardware platforms.
- Performed network and protocol testing using **Nmap, Wireshark, SSHScan**, tracking defects to resolution.
- Authored certification evidence and **Security Policies using Cryptik templates**, enabling independent labs to execute testing in compliant lab environments.
- Acted as the primary liaison between engineering teams and accredited test labs to resolve findings and ensure successful certification outcomes.

Junior Compliance Analyst   *Jul 2022 – Feb 2023*
Fortinet — Ottawa, Canada

- Designed and executed test case scenarios for **EAL4 and Common Criteria** evaluations.

- Conducted ACVP testing to determine supported cryptographic functionality.
- Supported **IPv6 compliance testing** in collaboration with UNH laboratories.
- Configured FortiGate firewalls and validated access control configurations.
- Maintained certification-related product documentation aligned with security policies and regulatory requirements.

Projects

Canterbury Cricket Club Website Design using AI and Vercel
- Designed and delivered a production-ready website for a local cricket club using **AI-assisted development workflows**.
- Applied secure SDLC principles, access control considerations, and deployment best practices.
- Led end-to-end delivery including requirements gathering, architecture decisions, implementation, and deployment.
- Demonstrated effective use of AI tools to accelerate development while maintaining code quality and security posture.

Technical Skills

Cryptography: AES, RSA, SHA, HMAC, ECDSA
Security Protocols: TLS, SSL, SSH, IPSec, X.509
Standards & Compliance: FIPS 140-3, NDcPP v3/v4, NIST SP 800-140B, Common Criteria
Virtualization: KVM, Secure VM Deployment
Testing Tools: ACVP, Wireshark, Nmap, SSHScan
Systems: Linux, Windows, Hardware Appliances
Delivery: Cross-functional Coordination, Technical Documentation, Secure Delivery

Certifications

- CompTIA Cybersecurity Analyst (CySA+)
- CompTIA Security+
- eLearnSecurity Junior Penetration Tester (eJPT)
- Fortinet Certified Associate

Education

Master of Engineering (MEng) — Information Systems Security
Concordia University   *2022*
Bachelor of Engineering — Information Technology
Panjab University   *2019*

Publications

SoK: Is iPhone Actually Secure? — International Journal of Advanced Research (2022)