



CDR PRAVEEN KUMAR

Cyber Security Transformation/ Data Privacy/ Information Technology

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💧Bangalore

EDUCATION

- M.Tech. (Computer Science), IIT Kanpur
- M.Sc. (Electronics and Communications)
- B.Tech. (Electrical & Electronics), Jawaharlal Nehru University
- B.Sc., National Defence Academy

TECHNICAL SKILLS

SIEM, Securonix, Cortex XDR, MS Defender, HP Arch Sight, IBM Q Radar, Tracable C++, C, Java, Perl, Python, R HTML, CSS, Risk Management, Data Privacy, IAM/IGA

CORE COMPETENCIES

- Cyber and Information Security Architectures/ Management Framework
- Cyber Security & Risk Management
- Data Security & Privacy
- Security Engineering
- C Suite Executive Relationship
- Cross Functional Team Leadership
- Business Process improvement
- Strategic Planning
- Security Audit
- Stakeholder Management
- Secure System Design
- AI / Data Analytics
- NIST, ITSM, ISO27000
- Risk Management
- Team Leadership / Training
- Threat Hunting, Threat Modeling

CERTIFICATIONS

- Certified Information Systems Security Professional (CISSP)*
- AWS Solution Architect Associate
- Certified Ethical Hacker (CEH)
- Certified Lead Auditor ISO 27001:2013
- Security Certified Network Specialist (International Cyber Security Institute, UK)
- AWS Security Specialist
- CompTia Security+
- Six Sigma-Green Belt
- GDPR

EXECUTIVE SUMMARY

A highly accomplished Naval Veteran and a Cyber Security transformation Specialist with over 2 decades of experience in various Cyber Security leadership Roles in large Corporates, the Government Sector (Indian Navy) and R&D organizations. Proven consistent track record of success in cyber-transformations of scale in quick time and building robust enterprise-wide cyber security practices and promoting security-conscious organization culture.

Thought leader with the ability to provide insight into current trends and developments in the cybersecurity industry. Through research, analysis, and evaluation, able to effectively identify and analyze emerging threats, as well as develop innovative solutions to protect organizations from cyber threats. Created industry benchmarks by **Designing and implementing an AI-based Cyber Fraud Detection system** to detect & disrupt Content Piracy and was able to reduce content piracy by 93%.

Information Security Transformation specialist with experience in developing \ implementing **Info-Sec transformation Programs ground-up** both in regulated and Unregulated industries. Spearheaded **Cyber Security transformation projects across varied complex domains** ranging from Defense Telecom, Defense Healthcare, Media & Entertainment, IOT and Satellite Communication etc. Built best in Class cyber security program from scratch and created an industry benchmark by completing the cyber transformation within 12 months.

Exposure to military operations has given me the adaptability and leadership skills required to **handle complex crises** effectively and successfully and hence been one of the very few CISOs who has **successfully thwarted a potential large-scale Cyber-attack**.

Championed the evolution of **Cyber and Information Security vision & strategy for large-scale organization (Indian Navy)** facing varied, diverse, and complex threat vectors. The Indian armed forces place a strong emphasis on the fungibility of skill sets, thus allowing easy and quick movement between roles, giving higher exposure to handling diverse security threats and applying this knowledge to different complex situations. Therefore, not limiting the technical acumen to a specific domain, industry, or type of threat landscape.

Part of the Executive Team to conceptualize & execute security policies; work efficiently with all stakeholders to facilitate information security risk assessment and risk management processes. Institutionalized organization wide Vulnerability Management Program & Threat hunting for Top Secret Naval Assets and Networks. **Extensive hands-on knowledge of all leading information security technology/frameworks and regulations.**

Architected and led the development and deployment lifecycles of Security products viz. Secure Cross-Domain Device, Secure On-Prem VC, Secure NextGen Shipborne Network, Secure Satellite-based Communication Network open-source technology-based Security Operation Centre (SOC) operations. Such projects largely help reduce the organizational Security budget also bringing In customized Security solutions with improved efficiency.

Effective Leader with **strong analytical and communication skills**, proficiency in building & motivating a team of Specialists and bridging the gap between performance and potential.



MAJOR PROJECTS

- Architected **AI based Cyber Fraud Detection** system to detect Content Piracy.
- Design of **Encryption System** for Thin Client Based Architecture, Secure Encrypted Pen Drive, Generic Crypto Card with tamper protection and Hardening of INMARSAT Satellite Terminals of Indian Navy.
- Architected **NextGen Secure Ships Data Network** for enhanced Security and Optimized hardware.
- Creation of strategic **secure IOT group** and implementation of LoRaWAN IOT architecture for critical applications
- Setting up of a **VAPT Lab** using Kali Linux platform with OSINT tools like Metasploit, Phishing attacks, Recon-NG, Hash Cracking, BeEF, Aircrack, Wireshark etc

RELEVANT EXPERIENCE

Group CISO- ZEE Entertainment Limited- Innovation & technology Hub (2021 Jun – Present)

- **Headed the Groups Information Security Transformation** ground-up by building Team, implementing Processes and Technologies, and developing a Roadmap to achieve a robust Cybersecurity Posture. **Improved Cyber Maturity Index from 1.9 to 4.2.**
- **Built Security Program** and Team from scratch to a 90-member team covering SecOps, AppSec, GRC and Content Security (Fraud Prevention)
- Established **Enterprise Security Strategy** based on NIST CSF framework.
- Created **industry benchmarks** by transforming the group Information Security posture from initial to Industry leaders within 12 months.
- Established **best in class practices** in Information Security Program Management, Risk Management, Incident Response.
- Set up **Security Operations team** – for the Hybrid Multi Cloud Environment.
- Built a strong **Application Security Program** through introducing Secure Coding methodologies and implementing DevSecOps processes in partnership with Engineering and DevOps.
- Set up **GRC** (Governance, Risk and Compliance) and Data Protection team – Mitigated third party risk by implementing a Vendor Risk Management Program, secured critical data with a comprehensive Data Protection program, built Security Culture with a practical security awareness and partnering with various business units.
- **Partnered with CTO & CDO** and other Business leaders to provide **effective Cyber Security** for their business operations without compromising speed of execution.
- Completed the **transformation within 12 months** as against 18 months as projected (CMA assessment roadmap by Big 4).
- Implemented the organization's **ISO 27001** Program in a duration of 12 Months.
- Implemented Privacy program **ISO 27701** for the organization and attained GDPR Compliance.
- Implemented **Secure Cloud Migration** from AWS to GCP and designed best practices for Multi Cloud Hybrid environment.
- Transformation of Security practices from **Compliance based Security to Risk based Security** Posture. Leadership, Strategic Direction, Forward Planning for Infosec Posture of the organization.
- Designed and implementing AI based Cyber Fraud Detection tool to detect Content Piracy (Only OTT Platform with Zero Inline Piracy).

RELEVANT EXPERIENCE IN VARIOUS ROLES IN THE INDIAN NAVY (2001-2021)

Operations

- Institutionalized organization wide **Vulnerability Management Program & Threat hunting** for Top Secret Naval Assets and Networks.
- Monitoring **enterprise Identity & Access** management program for organization with 10000+ identities and assets.
- **Incorporated DLP solutions** for Enterprise-Wide E-mail, Internet, and Servers.
- Steered efforts in **developing Business Continuity & Incident Management Policy in Indian Navy.**
- Significantly performed **code reviews of 50+ web applications to obviate OWASP top 10 Web Vulnerabilities.**
- Maintained security of Ship's ops LAN and Weapon Grid from external threats in both Indian and foreign ports.
- Pivotal in **planning & driving Organizations Security Operation Centre (SOC)s** and monitoring, comprehensive Cyber and Information Security Programs to ensure appropriate levels of Information Security.
- Program Management (200 Cr Program) of Submarine Combat Management System Program involving indigenous and Foreign Stakeholders (Naval Group (France), Sagem, DRDO, BEL).
- **Executed projects and procurement worth INR 200+ Crores in IT/ InfoSec Domain** from initiation to closure within defined timeframes.

Info Sec Architecture & Engineering

- Tracking latest IT security innovations and introducing the latest cyber security technologies into the Indian Navy.
- Showcased strong technical & leadership Skill in transition of Proprietary Firewall Appliance from software to hardware.
- Designed and Engineered **Secure Cross Domain Solutions** to bridge Top Secret Network to commercial Network for seamless intelligence Data Exchange.
- Architected **NextGen Secure Ships Data Network** for enhanced Security and Optimized hardware.
- **Authored & designed ORs** for customized Secure Removable devices for usage in Indian Navy (FIPS Level 2 Compliant).
- Lead the information security function across the organization to ensure consistent and high-quality information security product development.

GRC

- Determining the information security approach and operating model in consultation with stakeholders and aligning with the **risk management approach and compliance monitoring** of non-digital risk areas.
- Directing Cyber & Information Security function to ensure consistent & high-quality information security management in support of the Indian Navy goals and providing critical inputs for creation of **IT roadmaps for Indian Navy.**
- Facilitated an information **security governance structure** through the implementation of a hierarchical governance program.
- Established and maintain **security & privacy best practices** and policies throughout our organization.
- Conceptualized, formulated & implemented **information & cyber security best practices & processes.**
- Delivered on the agreed strategy through directing resources to ensure the protection of information assets and critical systems as well as providing advice on associated communications, applications, tools and infrastructure used to perform the critical function.
- Interacted with related disciplines to ensure the **consistent application of policies and standards across all technology projects**, systems and services, including privacy, risk management, compliance and business continuity management.

Product Security

- Led all phases of security **product Development** including design, coding, testing, deployment and lifecycle support with a team of 30-40 highly skilled security professionals.
- Coordinated **Security Evaluation of Proprietary Firewall** developed by CDAC (Chennai) and Mobile COTS Hardware for custom requirement.
- **Successfully introduced DevSecOps** practices in IN for higher standards in web security.
- **Established Centralized Testing Centre** for all projects with a dedicated team for carrying out testing and validation.
- Created and managed a targeted information security awareness training program for all stakeholders and establish metrics to measure the effectiveness of this security training program.