

AMAR NATH

Result oriented and an avid learner with passion for innovation in security arena. Strategizing and delivering security programs at enterprise and product level covering IT, OT and cloud with keen problem solving and analytical skills.

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Professional Experience

Novartis | Director – Security Architect

Feb 2020 - Present

Security Architect for the R&D division delivering strategic technical and architectural guidance to senior management, business technology partners and functional organizations.

- Define, deliver and maintain future-fit information security architecture principles, standards and technology roadmaps to support the secure design and implementation that address security requirements.
- Maintain deep understanding of the information security landscape and emerging technologies and identify key implications and actions for security architecture to persist a forward-thinking approach.
- Identify and develop security architectural standards, security patterns, reference architectures.
- Collaborate with enterprise architecture governance on technology standards and tools evaluation.
- Mentor functionals reporting architects and maintain project allocations.
- Engage with architects, technical leads and business stakeholders for high impacts projects across the business functions.

Applied Materials | Product Security Architect

Oct 2019 – Feb 2020

Designed the product security program from grounds up owning the roadmap along with service planning and delivery across the product lines.

- Secure build and operate customer facing solution including software and hardware for OT environments.
- Manage and maintain compliance with NIST CSF, UL 2900, SEMI and IEC 62443.
- Program delivery including application & infrastructure security, supply chain security and PSIRT.
- Independently drive strategy, execution and technical direction for information security programs, including scope, deliverables, and communication strategy.

BNP Paribas | Manager- Security & IT Risk

Apr 2017 – Oct 2019

Service delivery manager for application security and IT risk management at India GCC and lead the harmonization across all other GCC's.

- Local leadership for all application security services for the organization including SAST, DAST, SCA, MAST, PT, Threat Modelling and architecture reviews.
- Implementation of DevSecOps program.
- Delivering new security technology approaches and implementing next generation solutions. Conducting POC's and support tool qualification with ROI analysis.
- IAM transformation – Modern authentication, MFA, PBAC, SSO
- Data protection and Governance – DLP, Encryption, Access control across line of defense.

ICS | Senior Technical Consultant - Security

Feb 2016 – Mar 2017

Lead and execute comprehensive penetration tests across systems, networks, and applications. Spearhead simulated cyberattacks to assess and enhance security defenses. Conduct in-depth analysis of security breaches, identifying root causes and providing strategic recommendations.

IDEMIA | Senior Security Analyst – Cyber Defense

May 2014 – Feb 2016

Monitor and manage security incidents, alerts, and events using advanced security information and event management (SIEM) tools. Developed security monitoring and detection rules and policies. Investigated security incidents, conducting RCA and recommending remediation. Maintain incident response playbooks and procedures to streamline response efforts.

MetLife | Team Lead – Cyber Security & Threat Management

Apr 2012 – May 2014

Conduct risk assessment for internal and third-party applications. Qualify vendors through third party risk management. Coordinate compliance efforts and monitor compliance status. Lead audits and assessments to ensure regulatory compliance.

NESS | Member of Technical Staff

July 2010 – Apr 2012

Policy developer working with Symantec for their critical system protection suite of products.

IIT KGP | Research Assistant

Sep 2009 – Feb 2010

Engaged with a team of researchers to enable grid computing for the dept of computational geophysics requiring parallel processing of petabytes of seismic data.

Education

PG Diploma - Information System & Cyber Security

August 2010 | ACTS - C-DAC, Pune, India

Bachelor Of Engineering - Computer Science

June 2009 | NCET, Bengaluru, India

Certifications (Technical)

- Certified Information Systems Security Professional (CISSP)
- Certified Cloud Security Professional (CCSP)
- AWS Certified Security - Specialty
- Azure Security – SC900
- ITIL
- Hardware Security – University of Maryland

Certifications (Business)

- Business Foundation Specialization - Wharton Online | University of Pennsylvania
- Strategic Leadership & Management Specialization - Gies College of Business | University of Illinois Urbana-Champaign
- Innovation & Information Technology Management – IIM, BANGALORE

Contributions

- **Technical contributor** - Infosec Institute
- (ISC)² **exam development** volunteer
- (ISC)² foundation **scholarship program** volunteer
- Contributed to **SEMI** (Security standards for consortium of fabs)
- Contributed to standards and controls for **SaMD** sponsored by FDA.

Skills

- **Key Forte:** Holistic information security of an ecosystem incl. of Risk assessment, Threat modelling, Security operations including vulnerability assessment & penetration testing (Network, Infra, Web Application & Cloud), & Incident management.
- Standards and Compliance: NIST, ISO, IEC, PCI, GDPR, CIS, HIPPA, SOC
- Cloud: AWS, Azure, OpenStack
- Application: Veracode, Fortify, CheckMarx, Websinspect, AppSpider, Contrast, Qualys, Blackduck, Xray, Dependency Check, BurpSuite, AppScan, ZAP, Postman
- Network: Nessus, Nexpose, Wireshark, Nmap, Metasploit, Rapid7
- CNAPP: Wiz, Prisma
- GRC: Archer, SIG, ServiceNow
- Endpoint: Cortex, Symantec, McAfee
- SIEM: ELK, Splunk, Loglogic, QRadar
- Enterprise Architecture: ADOIT
- Security architecture: TOGAF, SABSA
- Threat Modelling: Iruisk, MS TAM
- Containers: Aquasec, Clair
- Threat intelligence: Feedly, Anomali
- Kubernetes and OpenShift security