

Senior Security Architect

- 20+ years of professional experience in security architecture, design, implementation, and management
- Highly effective translator of complex technical concepts for executive and non-technical audiences
- 10+ years providing security direction, guidance, leadership, and mentorship of enterprise security programs
- Provided security vision, strategy, and implementation as lead security architect for four-year, \$350M CIS modernization
- Extensive experience with all domains of information and physical security in enterprise security architecture, including network security (firewalls, network access control, intrusion detection/prevention); Identity Credential and Access Management (ICAM), Security Incident and Event Management (SIEM), DevOps, etc.
- GRC and Cyber Security Framework SME (including HIPAA, FISMA, GDPR, CCPA, HITRUST, ISO 27001, NIST 800-53)

RELEVANT EXPERIENCE

Senior Security Architect, [EPHELIAN SECURITY SOLUTIONS]

[2019 – Present]

- Developed, oversaw, and managed the Certificate Authority replacement and internal PKI rebuild for \$350M Customer Information System modernization project
- Designed, built, and implemented a solution for the secure migration and retention of 40 million customer financial records
- Architected solutions for enterprise-wide cloud and hybrid-cloud cryptography integration with SAP, AWS, Google Cloud, Azure, and Oracle
- Led analysis of hundreds of legacy applications and components for threats and vulnerabilities as part of Critical Infrastructure assessment for an enterprise serving 21 million consumers

Director of Innovation Engineering, [KNOX & ASSOCIATES]

[2018 – 2019]

- Led new security product development; research and ideation through prototyping and production
- Tasked with improving the Knox security product suite for sales enablement, increased revenue, and future-proofing
- Managed vulnerability assessments of new electronic lock and key system; team identified at least twelve critical vulnerabilities

Product Owner / Product Development Manager, [FORNETIX, LLC]

[2016 – 2018] Product Owner and Product Manager for Fornetix' key management appliance and related products.

- Led design of new PKI automation tools to develop for the product
- Introduced virtual, cloud, and IoT features and offerings to the product suite
- Increased product offering from one flagship product to an eight-product suite within a year
- Member of OASIS KMIP working group

Senior Security Architect, [EPHELIAN SECURITY SOLUTIONS]

[2015-2019]:

- Obtained US /Worldwide patents issued for secure delivery system for digital prescriptions
- Developed and implemented a new cloud-based medical service for IoT medical devices.
- Medical IoT (MIoT) / Healthcare IoT (HCIoT) device security design and secure Software Lifecycle integration
- Designed and developed a secure networking laboratory to test wired and wireless compatibility for Class I medical devices.

Security Business Development Specialist, [WORLDWIDE TECHNOLOGY, INC. (WWT)]

[2014 – 2015]

- Top annual producer out of 15 team members, recording 58% (\$29million) of the overall team gross profit (GP) revenue

Cryptographic Architect, [CITRIX SYSTEMS, INC.]

[2013]

- Designed and architected fully featured key protection and use mechanism conforming to industry best practices
- Documented full solution, including architectural blueprint and Key Management Infrastructure and policy texts

Network Security Architect, [FOOD AND DRUG ADMINISTRATION (FDA)]

[2010 – 2013]

- Led twelve-member team in architecture/design, testing and implementation of NAC and ISE infrastructure
- Coordinated re-initialisation of entire Public Key Infrastructure
- Designed, built, and deployed authentication/authorization solution for EAP-TLS 802.1x for agency-wide wireless

Information Systems Security Officer (ISSO), [FEMA MAP SERVICE CENTER (MSC)]

[2009 – 2010]

- Managed FISMA compliance, audits and other regulatory assertions and certifications
- Wrote policies and procedures governing security requirements

ISSO, Common Working File (CWF), [CENTERS FOR MEDICARE AND MEDICAID SERVICES (CMS)]

[2007 – 2009]

- Conducted Phase I of FISMA audit within a month of hire with zero POA&Ms generated
- Wrote and conducted company-wide security-awareness training

Director, Global Information Security, [THE DISCOVERY CHANNEL / DISCOVERY COMMUNICATIONS, LLC]

[2006 – 2007]

- First Director of Information Security. Founded Global Information Security (GIS) group
- Eliminated 50,000+ active vulnerabilities, reducing unpatched vulnerabilities by 95% in first three months

Senior Social Engineer / Architectural Consultant, [CYBERTRUST, INC.]

[2005 – 2006] Highest grossing Sales Engineer, 2005 & 2006 – Cybersecurity Consulting & Engineering

Identity Management / Cryptographic Specialist, [CONSTELLATION ENERGY GROUP]

[2003 – 2004] Security architect/project manager for all credentialing and authentication systems

- Designed and implemented enterprise Certificate Authority infrastructure

PKI Architect / Information Security Architect, [WACHOVIA BANK]

[2000 – 2002] Designed and implemented enterprise and public-trust PKIs.

- Saved more than \$15 million in licensing and infrastructure costs

AWARDS AND EDUCATION

- [2017-Present] GEORGE WASHINGTON UNIVERSITY College of Professional Studies
- [2023] First Place in DEFCON 31 Scavenger Hunt
- [2020] Patent Awarded: *Securely Distributing Medical Prescriptions*
- [2001] First researcher to discover “WAP-gap” vulnerability
- [2001] University of North Carolina Charlotte

Member, *Cyber Security Advisory Board*

Team Missing DEFCON Badges

US Patent No. 10623188

WAP 1.0

Comparative Linguistics

CERTIFICATIONS

• Certified Information Systems Security Professional (CISSP)	Awarded: 2004
• Certified CyberSecurity Framework Practitioner (CCSFP) [HITRUST]	2023
• Certified Advanced School Resource Officer (Incident Response and Management; De-escalation; and Armed Response)	2018

FOR THE BOTS

PKI, X.509, KMIP, Firewalls, Cloud, OpenSSL, ACME, Azure, AWS, KEK, Sectigo, IAM / ICAM, HIPAA, FISMA, GDPR, CCPA, HITRUST, ISO 27001, NIST 800-53, GRC, SCADA, AES, OT, FPGA, IoT, Medical IoT, SAP, Oracle, Google, 802.1x, CodeWord, CryptSoft, OpenSSL, ssleay, SSH, CyberARK, SafeGuard, Clearance, GENAI, Prompt Engineering, ChatGPT, Adversarial Model