Devecchio Turner, Ph.D., MBA

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Executive Summary

Enterprise cybersecurity architect with 20+ years leading the design of scalable, resilient, and risk-aligned security architectures across financial services, energy, and federal sectors. Recognized for Zero Trust transformation, hybrid cloud security engineering, cyber recovery architecture, and OT/ICS protection. Named inventor on U.S. Patent No. 12,537,830 B2 for AI-driven encrypted telemetry correlation and malware-aware recovery architecture.

Core Architecture Competencies

Enterprise Security Architecture | Zero Trust | Cyber & Disaster Recovery | Hybrid Cloud Security (AWS, Azure, GCP) | OT/ICS Segmentation | Threat Modeling | NIST 800-53 / 800-207 / ISO 27001

Professional Experience

USAA | Technical Architect – Cybersecurity (2024–Present)

Tasked with shaping enterprise Zero Trust, SASE, and OT/IoT security architecture across hybrid environments while guiding engineering teams in secure-by-design implementation and risk-aligned modernization initiatives.

- Defined enterprise Zero Trust and SASE reference architectures aligned to NIST 800-207 principles.
- Standardized OT/IoT segmentation patterns, reducing east-west lateral threat exposure across critical systems.
- Led architecture reviews for high-impact programs including data protection modernization and AI-enabled detection initiatives.
- Translated threat models into actionable control designs, guardrails, and CI/CD-integrated security patterns.
- Influenced security investment prioritization through risk-weighted architectural recommendations.

JPMorgan Chase | Executive Director, Cyber Recovery Architecture (2021–2024)

Led the design and modernization of enterprise cyber recovery architecture across hybrid cloud and on-premises environments, redefining ransomware resilience and recoverability standards for mission-critical platforms.

- Architected enterprise cyber recovery platform supporting large-scale hybrid workloads.
- Designed patented AI-driven encrypted telemetry analysis system (U.S. Patent No. 12,537,830 B2) enabling malware-aware recovery.

- Engineered ransomware isolation and recovery reference models integrating endpoint telemetry, key retrieval, and detonation sandbox controls.
- Standardized recovery automation using infrastructure-as-code and orchestration frameworks.
- Conducted platform-level maturity assessments to prioritize resilience investments and control enhancements.

ExxonMobil | Enterprise & Domain Architect Roles (2008–2021)

Held progressive enterprise and domain architecture roles leading global Zero Trust, network modernization, and resiliency strategy across large-scale operational environments.

- Led global Zero Trust transformation for 74,000+ users, eliminating legacy VPN infrastructure and reducing costs by $6.25M.
- Designed enterprise identity-to-application entitlement engine leveraging CMDB-driven telemetry mapping.
- Defined Modern Data Protection vision, reducing recovery time objectives (RTO) by 33% across business-critical systems.
- Architected SD-WAN and NextGen Network modernization pilots enabling secure digital transformation.
- Introduced network automation strategies reducing outages by 25% and improving operational stability.
- Harmonized cyber and disaster recovery reference architectures across global operating units.
- Mentored domain architects across compute, network, and resiliency disciplines.

United States Navy | Avionics / LAN Administrator (1995–2003)

Supported mission-critical avionics and secure communications infrastructure in high-availability operational environments, establishing the foundation for later enterprise architecture leadership.

- Maintained mission-critical avionics and secure communications systems supporting operational readiness.
- Administered 200+ networked and Windows-based systems across distributed environments.
- Delivered high-availability network support under mission-critical performance and resilience requirements.

Patents

United States Patent No. 12,537,830 B2 – Pattern Discovery and Data Protection Correlation.

AI-driven encrypted telemetry analysis architecture enabling secure decryption, controlled detonation, cross-platform correlation, and enterprise-scale malware-aware recovery.

Education

Doctor of Philosophy (Ph.D.) in Cybersecurity & Information Assurance – Capella University
Master of Business Administration (MBA) in Technology Management – University of Phoenix

Bachelor of Science (BSc) in Information Technology – University of Phoenix

Certifications

Certified Information Systems Security Professional (CISSP)
Certified Cloud Security Professional (CCSP)
Certificate of Cloud Security Knowledge (CCSK)
Certified Chief Information Security Officer (C|CISO – Associate)