

ALEXANDER REED, Ph.D.

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CHIEF DIGITAL & ARTIFICIAL INTELLIGENCE OFFICER | DEFENSE INTELLIGENCE STRATEGY

MISSION AI | SECURE CLOUD | DATA MODERNIZATION | CYBER RESILIENCE | MULTI-DOMAIN OPERATIONS

Modernize secure mission environments through trusted AI, cloud, data, cyber, and interoperable command systems.

National security technology executive with 22+ years of success in translating mission priorities into secure digital capabilities across defense intelligence, operational commands, research environments, and industry partnerships. Lead enterprise transformation spanning artificial intelligence, data platforms, cloud infrastructure, cybersecurity, acquisition, and organizational change. Build trusted relationships among operators, scientists, engineers, policy leaders, and acquisition stakeholders while maintaining resilience and responsible-use standards. Excel in accelerating decision cycles, strengthening readiness, winning strategic programs, and developing technical organizations capable of operating at mission speed.

- **Mission AI Modernization:** Reduced analyst-to-decision cycle time 48% and increased recognition accuracy 34% through governed AI and human-machine workflows.
- **Secure Digital Enterprise:** Migrated 87 mission workloads to zero-trust cloud environments, reducing provisioning time 72% and infrastructure cost 32%.
- **Strategic Growth:** Led \$620M in competitive contract wins and protected \$1.8B in recompute revenue through mission-backed solution strategy.
- **Coalition Interoperability:** Shortened cross-domain information-sharing and partner decision cycles 43% across 12 allied and interagency environments.
- **Cyber Resilience:** Reduced critical vulnerabilities 76% and mission recovery time 61% by integrating zero trust, DevSecOps, and continuous assurance.

KEY QUALIFICATIONS

Digital Strategy | Defense Intelligence | Mission AI | Generative AI & Large Language Models | Data Platforms | Responsible AI
Secure Cloud | Zero Trust | Cybersecurity | DevSecOps | C5ISR Modernization | Multi-Domain Operations | Program & P&L
Leadership | Business Development | Federal Capture | Acquisition Strategy | Portfolio Governance | Executive Communication

PROFESSIONAL EXPERIENCE

NORTHSTAR MISSION SYSTEMS | Arlington, VA

2018-Present

SVP, DIGITAL MISSION SOLUTIONS | 2022-Present | VP, AI & DATA MODERNIZATION | 2018-2022

Own digital strategy, mission AI, secure cloud, data engineering, cyber modernization, product management, and technical capture for a \$1.4B defense technology portfolio. Lead 420 technologists, 14 major programs, and an \$118M annual innovation and delivery budget across classified and controlled environments.

- **Reengineered intelligence production across six mission organizations, cutting analyst-to-decision cycle time 48%** by integrating multimodal data, machine-assisted triage, predictive prioritization, and operator validation.
- **Won \$620M in new competitive awards and retained \$1.8B in recompute revenue** by aligning capture strategy, mission architecture, technology roadmaps, prototypes, pricing, transition plans, and executive client engagement.
- **Launched a classified generative AI environment supporting 12 mission use cases and 8,400 users** with retrieval controls, source attribution, human approval, audit trails, adversarial testing, and continuous performance monitoring.
- **Retired 23 duplicative systems and redirected \$84M toward reusable mission products** through enterprise architecture governance, capability-based planning, common data services, and measurable adoption criteria.

SENTINEL FORGE TECHNOLOGIES | Reston, VA

2013-2018

DIRECTOR, MISSION DATA & CYBER ANALYTICS

Recruited to unify fragmented intelligence data, cyber telemetry, and operational analytics for federal mission customers. Built the practice from 22 to 95 employees and directed delivery, and business development across a \$310M program portfolio.

- **Created a mission data fusion platform integrating 28 petabytes across 61 sources** and reduced multi-agency decision latency 43% via common data models, identity resolution, cross-domain controls, and role-based visualization.
- **Reduced critical cyber vulnerabilities 76% and mean recovery time 61%** by combining threat analytics, zero-trust segmentation, automated containment, secure configuration, and executive readiness exercises.
- **Captured \$390M in new programs and expanded three strategic accounts 2.6X** through mission discovery, technical demonstrations, oral proposals, partner ecosystems, and transition-ready delivery plans.
- **Improved program margin 9 points and on-time delivery from 71% to 94%** by implementing product-aligned teams, portfolio risk reviews, reusable engineering assets, and transparent value metrics.

HARBORPOINT ANALYTICS | Norfolk, VA

2007-2013

PRINCIPAL DATA SCIENTIST & PROGRAM MANAGER | 2010-2013 | SENIOR SYSTEMS ENGINEER | 2007-2010

Advanced from systems engineering into technical and program leadership for mission analytics, natural language processing, graph intelligence, data architecture, and coalition interoperability. Led 68 employees, a \$46M annual program, and cross-functional teams spanning research, engineering, operations, security, and training.

- **Operationalized natural language processing across 1.2B unstructured records** reducing manual review 63% and increasing discovery of mission-relevant entities, relationships, and emerging patterns 37%.
- **Raised high-priority alert precision 41% while reducing false positives 46%** through graph analytics, behavioral modeling, analyst feedback, threshold calibration, and model-performance monitoring.
- **Connected 12 allied and interagency environments through a standards-based exchange architecture** improving shared operational awareness, source traceability, access control, and mission-partner responsiveness.
- **Tripled secure software release frequency and cut production defects 39%** by introducing automated testing, infrastructure as code, security gates, modular services, and mission-user acceptance reviews.
- **Recovered a delayed \$46M program and achieved 96% milestone performance within nine months** by clarifying technical ownership, rebuilding the integrated schedule, and resolving 31 critical dependencies.

FEDERAL MISSION RESEARCH DIRECTORATE | Washington, DC

2002-2007

CIVILIAN TECHNOLOGY FELLOW | SYSTEMS ENGINEER

Began career designing secure information-sharing, data-processing, and decision-support capabilities for mission research programs. Progressed into technical leadership of prototype transitions and operational evaluations.

- **Transitioned four research prototypes into operational mission programs** by establishing performance benchmarks, security requirements, integration standards, training, and sustainment plans.
- **Reduced data-processing latency 58% and improved system availability to 99.95%** through distributed architecture, workload prioritization, redundancy, and proactive performance engineering.
- **Earned selection to lead a 26-member cross-agency technical working group** that defined secure information-sharing patterns later adopted across seven programs.

EDUCATION & CERTIFICATIONS

Doctor of Philosophy, Systems Engineering & Artificial Intelligence | Atlantic Commonwealth University
Master of Science, Information Systems | Potomac State University | Bachelor of Science, Computer Engineering | Great Lakes Institute of Technology

- Certified Information Systems Security Professional (CISSP)
 - AWS Certified Machine Learning - Specialty
 - Certified Data Management Professional (CDMP)
 - Project Management Professional (PMP)
- Microsoft Certified: Azure AI Engineer Associate
 - Certified Secure Software Lifecycle Professional
 - Responsible AI Governance Certificate
 - Scaled Agile Framework Program Consultant

PUBLICATIONS & AWARDS

SELECTED PUBLICATIONS

- "Operating AI at the Tactical Edge: Governance, Resilience, and Human Control," Journal of Mission Systems, 2025.
- "Human-Machine Decision Teams in Contested Environments," National Security Technology Quarterly, 2022.
- "Zero Trust as a Mission Architecture," Secure Mission Engineering Review, 2018.

SELECTED AWARDS

- **National Security Digital Innovator Award**, Government Technology Council, 2024.
- **Enterprise Technical Leadership Medal**, Northstar Mission Systems, 2021.
- **Mission Analytics Achievement Award**, Sentinel Forge Technologies, 2017.

PROFESSIONAL LEADERSHIP

- **Board Advisor**, Institute for Trusted Mission AI
- **Chair, Secure Cloud & Data Council**, National Security Technology Association
- **Member**, Mission Systems Engineering Society | Responsible Technology Forum | Association for Computing Machinery