



AVALON TECHNOLOGY SERVICES

Federal IT modernization and cybersecurity services for U.S. government agencies.

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NAICS 541512 Computer Systems Design Services **541511** Custom Computer Programming Services **541519** Other Computer Related Services
541611 Administrative Management and General Management Consulting Services **541690** Other Scientific and Technical Consulting Services

COMPANY OVERVIEW

Avalon Technology Services is a small business providing cybersecurity and digital transformation services to federal agencies: Assessment & Authorization (A&A) under the Risk Management Framework (RMF), penetration testing, continuous monitoring, and Zero Trust architecture, plus legacy system modernization, cloud migration, DevSecOps, and Section 508 accessibility. Our work is mapped to NIST SP 800-53 and FISMA to support audit and authorization.

CORE CAPABILITIES

CYBERSECURITY

SECURITY ASSESSMENT & PENETRATION TESTING

Independent network and web application penetration testing, vulnerability assessment with validated exploitation, and threat modeling and risk evaluation. Aligned to NIST SP 800-115 and 800-30, MITRE ATT&CK, and FISMA, RMF, and FedRAMP requirements, with findings formatted for the Security Assessment Report (SAR) and ATO package.

ASSESSMENT & AUTHORIZATION (A&A)

Assessment & Authorization (A&A) support across the Risk Management Framework (RMF) lifecycle: System Security Plan (SSP) development, POA&M management, and independent security control assessments. Authorization documentation and audit evidence against NIST SP 800-53, FISMA, and FedRAMP baselines, with continuous monitoring support.

SECURITY ARCHITECTURE & IMPLEMENTATION

Zero Trust architecture assessment, design, and roadmap development aligned to the CISA Zero Trust Maturity Model and OMB M-22-09; Identity, Credential, and Access Management (ICAM/IAM) integration; and RMF integration. Vulnerability remediation, patch management, and security policy and procedure development mapped to NIST SP 800-53.

SECURITY OPERATIONS & INCIDENT MANAGEMENT

Endpoint Detection and Response (EDR), SIEM-based detection engineering, incident response and digital forensic analysis, and threat hunting for advanced persistent threats (APT). SOC augmentation and incident response retainer support for federal agencies.

DIGITAL TRANSFORMATION

APPLICATION DEVELOPMENT & MODERNIZATION

Legacy application modernization (rehost, replatform, refactor, rearchitect), cloud-native and microservices development, API and web services, mobile applications, low-code/no-code, and process automation (RPA). Agile delivery with Section 508 accessibility and software supply chain security (SBOM) built in.

CLOUD & IT INFRASTRUCTURE SERVICES

Cloud architecture and engineering, migration to AWS, Azure, and Google Cloud (FedRAMP Moderate, DoD IL2-IL4), SaaS/IaaS implementation, and data center modernization. FinOps cloud financial operations, enterprise monitoring and logging, network and database administration, and cloud AI/ML solutions.

DEVOPS & ENGINEERING PRACTICES

DevSecOps and CI/CD pipeline engineering with automated security testing (SAST/DAST), container scanning, and SBOM generation, producing continuous RMF assessment evidence to support continuous ATO (cATO). IT modernization program support: legacy portfolio inventory, keep/fix/replace/retire decisions, and incremental delivery.

USER EXPERIENCE & ACCESSIBILITY

Section 508 and WCAG 2.1 AA accessibility audits and remediation of websites and applications, plus customer experience (CX) strategy and journey mapping supporting the 21st Century IDEA Act. Accessibility Conformance Reports (VPAT) delivered with each audit.

COMMITMENT TO QUALITY

Delivery follows NIST SP 800-53, the Risk Management Framework (RMF) and FISMA, with evidence-backed, control-mapped documentation. Engagements are led by a Project Management Professional (PMP)-certified founder.

Credentials: Project Management Professional (PMP); ITIL 4 Foundation; ITIL AI Governance Version 5.