

CLOUD NATIVE DEVELOPMENT

Avalon delivers modern mission software the agency owns outright, deployed in weeks instead of years, engineered from the first line of code to support security authorization.

THE PROBLEM WE ADDRESS

A policy change takes three release cycles to implement, and a surge event — open enrollment, tax season, mobilization — degrades or takes down the application.

Every release triggers a slow, manual reauthorization cycle, and the system runs unsupported components that fail NIST SP 800-53 SA-22 on every scan.

WHAT WE DO

- User and stakeholder discovery with a rebuild-vs-refactor recommendation
- Service decomposition and API-first design
- Platform selection among containers, managed services, and serverless
- Foundation "steel thread" deployed within weeks
- Two-week sprints with a demoable increment every time
- Pipeline-integrated SAST/DAST and dependency scanning
- STIG/CIS-hardened, signed container images with an SBOM per release
- Control implementation narratives for developer-owned NIST SP 800-53 controls

HOW WE DO IT

1 DISCOVERY & FRAMING

Stakeholder interviews, integration inventory, and a rebuild-vs-refactor recommendation.

DELIVERABLE

Rebuild/refactor recommendation

3 ITERATIVE BUILD

Feature delivery in two-week sprints with continuous security scanning and 508 checks.

DELIVERABLE

Working software, sprint by sprint

2 FOUNDATION

Pipeline live with security gates; a minimal end-to-end "steel thread" deployed to a production-like environment.

DELIVERABLE

Deployed steel thread

4 HARDENING & TRANSITION

Load testing, independent-scan remediation, control narratives, and knowledge transfer.

HANDOVER

Control narratives + trained staff

VALUE DELIVERED

- › **Working software in a month and a half.** The first deployed feature lands in 30–45 days, not a staffing plan.
- › **Security embedded, not bolted on.** Control narratives are a standard deliverable, not an afterthought found at authorization.
- › **Everything lives in your repositories.** Code, infrastructure definitions, and the pipeline are the agency's from day one.
- › **Sized to actual load.** True cloud-native architecture avoids paying peak-cost 24/7 for a lift-and-shifted monolith.

THE ONE THING TO REMEMBER

The people in the oral presentation write the code.

COMMONLY PROCURED AS

Cloud-native application development services

AT A GLANCE

Model	Fixed-price or T&M, scoped per engagement
Typical	4–6 months to MVP for a small system
NAICS	541512, 541511, 541519, 541611, 541690
UEI	Y9MXMMHY3HA1
CAGE	242T0
Standards	NIST SP 800-218 SSDF, NIST SP 800-53, DoD DevSecOps Reference Design, Section 508/WCAG

WHO WE WORK WITH

- Program owner needing working software faster than a traditional build cycle
- ISSO wanting control evidence generated continuously, not at the end
- CIO staff avoiding a repeat of an unsupportable lift-and-shift cost curve

COMMITMENT TO QUALITY

Avalon is led directly by a PMP-certified founder with a decade of enterprise engineering experience where every engagement gets senior-level attention, never a subcontracted bench. Delivery follows NIST SP 800-53, RMF, and FISMA, evidence-backed and control-mapped by design. ISO 9001/27001 is on the roadmap as the pipeline scales.

Status: Small business federal contractor based in Los Angeles, CA

NIST SP 800-218 SSDF

NIST SP 800-53

DOD DEVSECOPS REFERENCE DESIGN

SECTION 508/WCAG