



## WHO WE ARE

AretecSBD is an SBA 8(a) approved Mentor Protégé, Joint Venture comprised of Aretec, Inc. and Solutions By Design II, LLC, built to provide the best solution for our customers bringing over 30 years combined experience supporting Information Technology across the federal government. We specialize in IT system modernization support as an application transformation and agile process leader. We leverage open source technologies and cloud-based solutions to reduce operating cost and advance the value proposition of automated solutions. We also have a robust cybersecurity capability optimizing security operation centers through the use of leading-edge security tools.

## EXPERT RESOURCES

Our team of experts combines extensive subject matter expertise with a leading edge understanding of best practices in managing information and technology.

## NAICS CODES

- 511210 Software Publisher
- 517919 Telecommunications
- 518210 Data Processing, Hosting and Related Services
- 519190 Information Services
- 541219 Accounting Services
- 541330 Engineering Services
- 541511 Custom Computer Programming Services
- 541512 Computer Systems Design Services
- 541519 Computer Related Services
- 541611 Administrative and General Management Consulting Services
- 541614 Process, Physical Distribution, and Logistics Consulting Services
- 541690 Scientific and Technical Consulting Services
- 541715 Research and Development in the Physical, Engineering, and Life Science
- 541990 Professional, Scientific, and Technical Services

## WHAT WE DO

Our multi-disciplinary team of information technology professionals and project management experts provide fully integrated and business-oriented solutions. We address the legacy issues of yesterday, the compliance issues of today, and most importantly, the challenges of tomorrow.

AretecSBD provides a high level of policy consulting and a range of technical services across the following practice areas:



### DIGITAL SERVICES

Leveraging new technologies to modernize and deliver innovative and customer-focused services

- Agile Delivery
- AppDev and O&M
- Technology Modernization
- Cloud Migration
- User Experience (UI/UX)



### CYBER SECURITY

Cyber strategy, defenses, and recovery capabilities to protect our customers' mission and enable business resiliency

- Security Operations
- Cyber Threat Intelligence
- Security Orchestration, Automation & Response
- Information Assurance
- Cloud Security and DevSec Ops



### DATA SCIENCE

Disciplined approach for turning data into actionable business knowledge to create value and improve decision-making

- Big Data
- AI / ML
- Data Engineering
- Statistical Modeling
- Data Reporting and Visualization
- Descriptive and Predictive Analytics



### ENTERPRISE SERVICES

Certified quality-driven enterprise solutions to optimize business performance and enhance mission delivery

- End User Services
- Shared Services
- SharePoint Solutions
- MS O365 Migration
- Network and Infrastructure Services
- Training and Instructional Systems Design

## SECURITY



## CASE STUDIES



### Centers for Medicare & Medicaid Services - Cloud Migration

**SITUATION:** CMS-CCIIO sought to migrate the Federally Facilitated Marketplace (FFM) from its current on-premises virtual data center providers into a Cloud-hosted environment.

**SOLUTION:** SBD migrated all 17 modules into the AWS cloud utilizing Puppet, Nexus Pro, SonarCube, Fortify, and Splunk. Our Team continues to optimize in the cloud to reduce costs, increase monitoring and availability, mature continuous delivery practices, automate security, and implement platform improvements.

**BENEFIT:** The transition to a Cloud-hosted (AWS) environment allows for economies of scale and on-demand scalability as needed to better meet the system resource demands and business cycles of the Marketplace.

*"They {SBD} have done a tremendous job of making sure the HIOS system is compliant with the technical reference architecture, and your ability to communicate the specifics in an easily understandable manner is exemplary."*

**Brian James, Director**



### Centers for Medicare & Medicaid Services - DevSecOps Pipeline

**SITUATION:** CMS required a DevSecOps solution to keep pace with evolving CMS enterprise standards, and more importantly, that focused on empowering Product Owners with Release On-Demand capabilities.

**SOLUTION:** SBD provides digital services using a hybrid agile development approach that aligns to the CMS XLC by integrating a fully automated DevSecOps Pipeline and process. SBD utilizes tools such as GitHub, Jenkins, Ansible, JUnit, SonarQube, Fortify, Nexus, OWASP, Selenium, JMeter, Splunk, New Relic, BurpSuite, JBOSS and ChefInspec.

**BENEFIT:** In the base year of the contract, O&M costs were estimated at 70% of contract costs and 30% New Development. Our team has reduced O&M costs to 40%, enabling new development spend to increase to 60%. We also decreased our patching time through automation by 71% in a span of three months.

*"Not only did the team deliver successfully on this major CCIO priority, but you {SBD} continued to provide superior customer support and implement several other priorities simultaneously."*

**Brian James, Director**



### U.S. Citizenship and Immigration Services

#### U.S. Citizenship and Immigration Services - Security Orchestration, Automation & Response

**SITUATION:** Our SOC personnel conduct information assurance activities designed to ensure system and application compliance with RMF guidance. Our team is responsible for maintaining system/application/data security and analyzing both data and reports to determine agency vulnerability to network and desktop-based attacks while recommending actions to prevent, repair or mitigate these vulnerabilities.

**SOLUTION:** Our Security Automation and Orchestration has been successfully implemented at DHS USCIS resulting in more secure security posture as well as efficiencies and cost savings.

**BENEFITS:** Over \$800k in Savings in the first 8 months of implementation. Automated over 80% of Tier 1 functions. We are reporting over 64% of incidents across all of DHS. Customize Cyber Threat Intelligence exposes indicators before an agency is targeted. Enhanced resource allocation and efficiency.

*"{SBD} managed to actually get rid of our complete Tier 1 in our SOC at USCIS, primarily because we automated it out of existence"*

**Shane Barney, USCIS CISO**



### U.S. Security Exchange Commission - Abnormal Trading and Link Analysis System (ATLAS)

**SITUATION:** The SEC Enforcement Division had a requirement for a tool that combines multiple trade data sources with quantitative statistical analysis and querying techniques that could be used to identify Insider Trading and other trading violations.

**SOLUTION:** Aretec developed a data science platform, NEAT, that interfaced with ATLAS, a new Commission application that finds these potential financial security violations by surveying equity and fixed income data and identifying suspicious trading activity. ATLAS is a machine learning tool developed on the NEAT platform to take advantages of economy and scope, eliminating overlapping functionalities in the examination and investigation workflows.

**BENEFIT:** Our solution powers the analysis of SEC Enforcement Division Bluesheet timestamp cases and has resulted in over \$6,000,000 in fines, and a backlog of fines to be levied. ATLAS is also responsible for numerous Insider Trading cases in the Commission's Enforcement pipeline and has saved the Commission over \$1,000,000 in development costs.

*"This contractor {Aretec} came into a project that was very complex and was able to achieve success on the project by providing quality staff and tightly integrated management team. They have also partnered with subcontractors to ensure that they provide comprehensive expertise to the project."*

**Nick Chung, SEC CO**



Facility Clearance: Top Secret

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