



Capabilities Statement

Data and Analytic Solutions, Inc. (DAS), a CMMI Level 2, SBA 8(a) certified and Woman-Owned small business, has been providing superior, affordable, and innovative solutions to government agencies and corporations in the greater Washington DC/Baltimore area and nationwide. Our solutions include data and statistical analytics, program integrity, system automation for analytics, warehousing, and quality control, e-learning and instructional systems design, web portals and content management systems, configuration management and full life cycle development. Our work at United States Coast Guard won the prestigious **SAS® Enterprise Intelligence Award in 2006**. We are a **2009 Top 100 MBE Award Winner** in the Mid Atlantic region for our entrepreneurship, client satisfaction, and professional and community contributions.

Services and Solutions

Data and Statistical Analytics for evidence-based support in decision making, quality care, performance management, fraud detection, and business intelligence (BI): We identify recurring patterns, build metrics and implement BI portals that achieve value, optimization and cost advantages.

Program Integrity Services: We support healthcare clients with data mining, survey analysis and program management to avoid fraud, waste and abuse and ensure quality of care for patients and/or beneficiaries.

System Automation for Analytics, Warehousing, and Quality Control: Our well designed data driven solutions perform automated services of ETL (Extract, Transform

and Loading), reporting, data hygiene and analytics as data becomes available.

E-Learning, Instructional Systems Design (ISD) and Interactive Web Solutions: Our web portals and content management solutions are user-friendly, cost-effective, easy to maintain and guaranteed with long-term support.

Uncompromised 3rd Party Evaluation of Software, Personnel, and Processes: We evaluate software, personnel, and processes for system’s optimization and human productivity.

Configuration Management and Full Life-Cycle Development: We work with large software development efforts to achieve process maturity and automation.

Industry Experience: Government, Healthcare, Financial Services, Energy and Utilities, Non-profit Banking, Software/Internet, and Social Sciences

Contract Vehicles and Certifications

- Small Business Administration 8(a) and SDB Programs (#301734; Exp. Date 4/2016)
- Virginia Minority Business Enterprise (SWAM) 58531
- Maryland Dept. of Transportation MBE/DBE #08-054
- Maryland, Small Business Reserve (SBR) # SB10-6148
- Women's Business Enterprise National Council (WBENC)-#2005108873
- General Services Administration Schedule (GSA) 70 - Information Technology (IT): GS-35F-01355
- DHS US Coast Guard IDIQ HSCG23-08-D-AGA215 for Acquisition Strategic Management System support

NAICS Codes and Company Data

- 518210 Data Processing, Hosting, and Related Services
- 541430 Graphic Design Services
- 541511 Custom Computer Programming Services
- 541512 Computer Systems Design Services
- 541519 Other Computer Related Services
- 541720 Research and Development in the Social Sciences and Humanities

- 541990 All Other Professional, Scientific, and Technical Services
- 611420 Computer Training
- 611710 Educational Support Services

DUNS Number: 008611084
Federal ID: 54-2005829
CAGE Number: 3DW85

Celebrating 10 Years of Service and Achievements

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Verifiable Past Performance: Project History

- ❖ **Medicaid Fraud Detection and Research for HHS (Client: Centers for Medicare & Medicaid Services):** DAS has been contracted to serve HHS in Medicaid fraud detection and research. The task includes investigating, collecting and designing algorithms for fraud detection, waste and abuse, and building a library of best practices for long-term fraud detection efforts at the federal level. The project helps improve federal health care services and impact states and Medicaid benefits beneficiaries.
- ❖ **Performance Management System for Dept. of Homeland Security (Client: U.S. Coast Guard):** DAS designed and implemented a web-based data-driven application that measures the billion dollar acquisitions and department level performance at the agency. The results are used daily through a “drill-down”, multi-page, color-coded Internet interface. The process updates over 200 metrics automatically as new data becomes available. Exception reports are automatically generated and the system notifies the user of unusual activity by email. Advanced coding techniques were used to work around issues with the new technology.
- ❖ **E-Learning Web Application for Program Evaluation: STEPS Toolkit (Client: Planned Parenthood of New York City):** DAS designed and implemented a self-paced e-learning system called STEPS Toolkit for use by health care professionals. The application allows learners to log in and study the module content according to the user profile they select. At the center of the module material is a complex form called Integrated Monitoring and Evaluation Tool. Learners are required to fill out a portion of the form as they go through each module.
- ❖ **Data Management and Computer Programming Support (Client: Agency of Healthcare Research and Quality. Prime: Social and Scientific Systems, Inc):** The contract supports AHRQ's print and Web-based data dissemination efforts. AHRQ publications include Chart books, Research findings, and Statistical Briefs; peer-reviewed journal articles written by AHRQ researchers; and presentations made by AHRQ researchers in professional meetings. DAS performs SAS programming and research for annual surveys and publication tasks.
- ❖ **Batch Services - Telephone Number Matching (Client: U.S. Bureau of the Census):** DAS supports the American Community Survey (ACS) Project with data extraction and matching service, working with LexisNexis Risk Solutions.
- ❖ **Data Warehousing and Business Intelligence (Client: Citizenship and Immigration Service. Prime: ICF International):** DAS has contributed significantly to designing and developing the technical architecture needed to research, analyze, and identify key patterns, linkages and themes in immigration benefit fraud.
- ❖ **Data Discovery and Predictive Modeling (Client: Court Services and Offender Supervision Agency):** DAS performs a Proof of Concept project to demonstrate the use of predictive modeling for offender recidivism and to perform enhancements to their existing business intelligence reporting and GIS capabilities.
- ❖ **Prescription Drug Fraud and Abuse Detection Application for U.S. Dept. of Justice (Client: U.S. Drug Enforcement Administration):** DAS was instrumental in developing a Prescription Drug Fraud and Abuse Detection Application that is currently used by US Drug Enforcement Agency. The application identifies and documents questionable transactions (prescriptions) and to analyze long-term behavior of physicians, pharmacists and patients as it relates to the sale and/or purchase of prescription drugs. Questionable activity contained within \$3 billion transaction records is identified through segmentation, clustering, and comparative analytics. The process is also able to identify and document possible collusion between the parties.
- ❖ **SAS Predictive Modeling (Client: Dept. of Veterans Affairs):** DAS performed data processing, modeling and analysis to estimate veteran population and geographic distribution. Results were used to allocate federal funding and were presented using SAS Graph and Internet. The objective of the task was to accurately project US Veteran populations on a county by county basis for the next 25 years. The system offers accurate, timely, and predictive information for budgetary management at the agency.
- ❖ **Complex ETL and Automation for Electrical Use Analysis (Client: Entergy Solutions. Prime: Smith Hanley Consulting Group):** DAS helped design, build and implement a data driven application that estimates long term (two years) electrical usage of commercial facilities to establish appropriate levels of pricing and electrical generation. Commercial facilities are assigned to a cohort according to the patterns of their historical energy usage. Future energy usage is estimated by projecting the associated pattern into the future while adjusting for reactions to long-term weather forecasts.

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Our Management Team

- ❖ **Dawn Li, Ph.D., President** has about twenty years of corporate and university experience in project and contract management, knowledge and data management, web architecture and usability, e-learning design and implementation, and proposal/technical writing. Prior to DAS, she managed/provided program and technical support at Northrop Grumman, Stanley Associates, George Washington University, and LearnInUSA.com. She holds a Ph.D. in Interdisciplinary Studies and a M.S. in Management Information Systems from George Washington University.
- ❖ **Gary McQuown, VP, Sr. Systems Developer**, has twenty years of experience in software programming and development, has managed numerous tasks for private firms and governmental agencies. He provides data related solutions in risk and credit analytics, fraud detection, automated processing, business intelligence, and revenue optimization. He was instrumental in the success of the award winning USCG Deepwater BI/SPM task and is a frequent presenter at technology conferences.
- ❖ **Ed Heaton, M.S., Health Solutions Manager**, has an extensive career in Information Systems Technology that utilizes his exceptional organizational skills, creativity, and SAS® programming abilities combined with strong mathematical, statistical, analytical and problem-solving abilities. His talents at teaching and mentoring other SAS programmers broaden his expansive portfolio of skills. He holds a B.S. in Applied Mathematics from University of Missouri and an M.S. in Computer Science on artificial intelligence from Johns Hopkins University.
- ❖ **Brett Peppe, CISSP, Enterprise Architect/Certified Security Expert**, has over two decades of experience in building data analytics systems. His work spans all phases of systems analysis, design, development, testing and maintenance from producing commercial shrink-wrap, enterprise data warehousing, demand/segmentation analysis, to production risk management. Superior enterprise level data warehousing and quantitative experience on a variety of platforms (HP-UX, IBM-MVS, NT) and databases (Teradata, DB2, SQL Server, Oracle).

Clients and Partners

Government

- Agency for Healthcare Research and Quality
- Board of Governors' Federal Reserve
- Centers for Medicare & Medicaid Services
- Citizenship & Immigration Services
- Court Services & Offender Supervision Agency
- Department of Defense – Military Health System
- Department of Labor
- Department of Treasury
- Maryland Health Care Commission
- Department of Veterans Affairs
- U.S. Army
- U.S. Bureau of Census
- U.S. Coast Guard

Commercial & Non-Profit

- Advanta Government Services, LLC
- Capital One
- Centre for Development and Population Activities
- Entergy Solutions Supply LTD
- Northrop Grumman (formerly ROW Sciences)

- Freddie Mac
- The George Washington University
- Halliburton
- ICF International
- Image Media Services
- K12, Inc.
- The Kennedy Center for Performing Arts
- Johnson and Johnson
- LexisNexis / ChoicePoint Solutions, Inc.
- Lifecare Management Partners
- National Analysts Worldwide
- Organization of Chinese Americans
- Planned Parenthood of New York City
- Realty Direct
- SAS Institute
- SGIS Salient Federal Solutions
- Smith Hanley Consulting Group
- Social & Scientific Systems, Inc.
- University of California at San Diego, San Diego Supercomputer Center
- Wells Fargo

Why DAS?

- Commitment to our customer's needs. Our success is determined by your satisfaction not a software sale's quota.
- Deep industry and government experience that allows us to anticipate and resolve problems before they arise.
- Superb technical skills in handling cutting edge software and technology.
- Scored 92 out of 100 points for the customer survey conducted by D&B on behalf of GSA.
- DAS has long-standing relationships with companies whose solutions complement our core services and help us extend our capabilities nationwide. We provide more value-added options to our clients.
- Top 100 Minority Business Enterprise (MBE) Winner (2009) and 10 Years of Proven Success Record.

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