Matthew M. Spencer

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Summary:
TS Cleared Solutions Architect and Data Scientist. TEDx Nominated Speaker. Current Semi-Finalist for 'The Data Incubator' Fellowship. Looking to solve complex technical and analytical problems with creative solutions.

Education:
West Virginia University (Morgantown, WV)
  M.S. in Business Data Analytics (2018) 4.0 GPA
    Honors: The Honor Society of Phi Kappa Phi (top 10% of class)

    Dissertation/Capstone Research: 'Convex Clustering and Multi-View Learning on Clinical Data for Improved ACO Quality Measure Tracking.' Co-created convex clustering package (cvxTrain) for R.

    Skills/Classes/Research involving: Simple and Multi Linear Regression, Model Evaluation, Stat Computing, Hadoop, Data Mining, Predictive Modeling, Data Collection, MapReduce, Spark, SQL, Regularization, Maximum Likelihood Estimation, R/R Studio, Tableau, Convex Clustering, ggplot visualizations, Shiny apps, + many more.

  Bachelor of Arts (2009)
  Self-designed degree consisting of Architectural Design/Computer Science classes. Native American Studies minor.

Published Works:
Technical Reviewer for the following publications:
  'Microsoft Application Virtualization Cookbook' by Packt Publishing, published August 17, 2015.
  'Troubleshooting Citrix XenApp' by Packt Publishing, published December 29, 2015

Experience:
Leidos (Morgantown, WV) 11/18-Present
  Software Solution Architect/Reporting and Analytics Lead – careC2/Leidos Health
    Lead for Reporting and Analytics: building and leading a team of Developers and Engineers to tackle Data Science problems and implement Data Science solutions to CareC2 product offerings. Lead for Strategic University Alliance relationship with West Virginia University to oversee graduate capstone projects and university recruiting.

Wanderstar Analytics (Morgantown, WV) 06/18-Present
  Founder and Data Scientist
    LLC offering Data Science consulting to nonprofits, small businesses, and local governments.

Data-Driven WV (Morgantown, WV) 08/17-Present
  Founder and Data Scientist
    Organized collection of Data Scientists, Academics, Statisticians, and other Technical members to tackle state and local problems in a data driven approach.

FBI (Clarksburg, WV) 10/15-11/18
  Solutions Architect and IT Roadmap Lead (IT Spec GS 12) – Systems Development/Architecture Unit/ITAG
  Responsibilities:
  Data Analytics, Software Development and Architecture, Systems Engineering, Strategic Technical Planning
  Projects/Successes:
- Created Division model for Data Analytics
- Architect and IT Roadmap Lead for implementation of SAFe (Scaled Agile) Framework across Division
- Author of whitepapers and presentations about Big Data and the role of Data Sciences to Division
- Part of team that implemented Crime Data Explorer utilizing 200+ new Open-Source libraries to visualize Crime Statistics in the United States. (https://crime-data-explorer.fr.cloud.gov)
- Co-leading and implementing an internal Open-Source framework for code, test automation, server deployment
- Lead a team of experts in establishing automated testing, DevOps, and continuous deployment
- Member of team to engineer move of internal applications and databases to cloud
- Oracle Database Administrator
- Completed Supervisor Development Training and formal mentor programs

- Leading effort to take internally developed code and submit it to the open source community

Related Professional Memberships:

- Member of InfraGard public-private partnership to facilitate information sharing and intelligence.
- Member of Division's Data Science Community of Interest
- Member of NIST Big Data Public Working Group to develop a Big Data Technology Roadmap.

Nantucket Data Platform (Nantucket, MA) 07/18-10/18

Consulting Data Scientist and Data Manager

Responsibilities:

Consulting data science work for businesses, nonprofits, and local government on Nantucket Island.

West Virginia University (Morgantown, WV) 10/14 – 09/15

Business Analyst (Professional Technologist 3) – Financial Aid

Responsibilities:

Project Assessments, plans, and estimates. Project Design, Business Process Mapping and Improvement, Program Modification, testing, and installation of project work. Recommend Design/System alternatives and approaches to Financial Aid's system requirements. Serve as liaison with technical and functional staff related to business applications. Train staff on new systems.

Projects/Successes:

Technical and Business lead for WVU's first Scholarship Management System (AcademicWorks) that radically changed how students apply to and are rewarded scholarships. The system automates the process of application and scholarship matching as well as improving processes for selection of awardees and review of candidates.

- Technical and Business lead for Argos Enterprise Reporting Solution.
- Served on various committees in charge of Elucian Banner (Student Information System) revitalization.

State of Wisconsin (Madison, WI) 03/12 – 08/14

Applications Technical Architect – Wisconsin Department of Justice

Responsibilities:

Strategic Planning, IT Management, Technical Requirements Analysis, Exchange and Active Directory Admin, IT Road mapping, Vendor Management, Life Cycle Development, Enterprise System Implementation and Support, Project Estimates, Business Analysis, Technical Project Management, Data Modeling, SharePoint and Office 365 Architecting, Technical Writing, Served as only Architect across Technical and Application teams.

Projects/Successes:

- Developed DOJ's first SaaS to offer to other state Justice Depts. with FBI integrations.
- Architected a major application rewrite from 14 year old PowerBuilder system to Java/Oracle.
- Implemented LiveScan and CardScan device and workflow upgrades to fingerprint card/scan process.
- Implemented many SDLC changes to help transition WI DOJ from waterfall to Agile development.
- Wrote several RFI/RFB/RFPs and served as technical procurement SME.
- Planned major rapsheet template change to be used by police officers across the state.
- Put together many technical project estimates with costs/hours/resource needs and presented them to Executive oversight group for approval,
- Planned a major implementation of a replacement online record check system.
- Planned and implemented several records and case management systems.
- Chaired subcommittee and served as technical architect for legislative funded mandate for law enforcement to gather DNA at arrest.
- + many more.

Network Account Security Administrator – Wisconsin Department of Health Services

Responsibilities:

Account and Network Security, Administration of Dept. of Homeland Security's SAVE system, Technical Writing, IT Security Officer, State Email Admin

Projects/Successes:

- Won various customer service awards via nominations by customers and management.
- Promoted to Department of Justice shortly after starting.

<u>**Epic Systems Corp.**</u> (Madison, WI) 06/11 - 03/12
> Client Systems Team/Flat Company Structure without Job Titles
> *Responsibilities:*

Designed and implemented system platforms for Epic's Electronic Health Record software for 10+ national hospital systems, Technical Requirements Analysis, Vendor Management, SME for Telemedicine and Microsoft App-V, Part of team to research Telemedicine as a potential Epic service.
> *Projects/Successes:*

- Successful Epic implementations at more than 10+ hospital systems from setting up development environments onsite to Go-Lives.
- Implemented Epic's first customer with Microsoft App-V and Citrix.
- Submitted several pieces of functionality for patent review.
- Trained technical staff at customer sites to build, utilize, and maintain Epic systems.
- Mentored technical staff at customer sites to help them pass certification exams relevant to Epic systems.

<u>**Mylan, Inc.**</u> (Morgantown, WV) 08/09 - 05/11
> **Messaging and Enterprise Content Management Administrator**
> *Responsibilities:*
> Email Engineer, SharePoint Architect/Infrastructure Technical Lead/SME, Supervised Offshore Support Team, Legal eDiscovery Administrator, Technical Writing, Executive technical support.
> *Projects/Successes:*

- Architect and Infrastructure lead for $3.5M global deployment of SharePoint to 15,000+ users.
- Planned and implemented Mylan's first SQL cluster via the SharePoint project.
- Part of team that successfully implemented Symantec EnterpriseVault
- Part of team that successfully consolidated technology from several acquired companies.

<u>**West Virginia University**</u> (Morgantown, WV) 09/05 - 08/09
> **Professional Technologist 3** - Robert C. Byrd Health Sciences Center
> *Responsibilities:*
> Tier 2 Technical Support, Lenovo Warranty Support, ActiveDirectory and Novell Account Management, Desktop and Networking Support, ERAS SME and Administrator, Medical Test Proctor/Support Technician for Exams.

> **Information Systems Technician** - WVU Office of Information Technology
> *Responsibilities:*
> Tier 1-2 Technical Support for 30k users

<u>**Point Park University**</u> (Pittsburgh, PA) 08/03 - 7/05
> **Desktop Support Technician**

Consulting:

TimberLand Consulting, LLC (Shanks, WV)   02/99 - 05/07
> *Responsibilities:*
> Webmaster, Served as only technical resource for company, Personal Assistant to Company Founder/Owner.

Side Projects:

The Good Judgment Project - 2014-2015:
> Analyst predicting world changing events via aggregative contingent estimation against 17 agencies in the US Intelligence community. Member of small team to hash out consensus judgments regarding geopolitical events.

Competition:

2014 Verizon's Powerful Answers Competition
> '*Community Living Spaces: Mega scale Architecture to Bring together Communities in Rural America*' Advanced to Second Round

Certifications:

Microsoft Certified Technology Specialist (MCTS), Epic Client Systems Manager 100, 200, +many more available upon request.