

MICHAEL W. SHERMAN

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TECHNICAL SKILLS

Data Analysis/Visualization: R, Tableau, Excel, Shiny, Matlab, SAS, SPSS, Knime, Weka, Decision Tools, Crystal Ball

Data Science: Machine Learning, Statistics, Graph (Network) Analytics, Text Analytics / Natural Language Processing

Big Data: Hadoop, MapReduce, HBase, Google Bigtable, Google BigQuery, Google Dataflow, Hive, Storm

Programming: Java, Python, C++, Eclipse, Git, Subversion, PerForce

Database: SQL, Oracle, Neo4j, MySQL

Cloud: Google Cloud Platform, AWS

Operating Systems: Linux, UNIX, Bash Scripting, OS X, Windows, Solaris

SELECTED PROFESSIONAL EXPERIENCE

Bloomberg L.P. – *Senior Data Scientist*; New York, New York September 2015 – Present

- Head Data Scientist on a Bloomberg Law product extracting and serving relevant content from a corpus of millions of documents
- Refining and improving a machine learning pipeline to the required level of performance. The pipeline has multiple model types, including structured prediction, single-instance classification, unsupervised learning, and network models
- Collaborating with legal experts on product design and creation of guidelines for manual tagging of training data by lawyers
- Auditing and improving an existing machine learning codebase, and developing custom evaluation routines

SunGard Consulting Services – *Senior Consultant (Data Science)*; New York, New York July 2014 – September 2015

- Managed a data science and analytics team as part of a larger effort to bid for the Consolidated Audit Trail (SEC Rule 613)
- Wrote 30% of SunGard's rebid for the Consolidated Audit Trail project, and architected the proposed big data system. SunGard (now FIS) is one of three vendors still in consideration (down from six) for this \$500 million+ project on the strength of this rebid
- Built a system organizing equities and options transactions into directed graphs (170 million transactions processed per minute), and wrote a whitepaper detailing the development process and the capabilities of the system
- Developed a predictive model using EDGAR data to determine future corporate bankruptcies
- Designed, built, and deployed a suite of analytics for the CEO of an energy investment fund

United States Peace Corps – *Resource Specialist*; KaNyamazane, Mpumalanga, South Africa July 2010 – September 2012

- Lived as the only American in a historically all-African city. Learned the local language and customs
- Designed and programmed an operations database for a rural rape crisis center with over 1,000 annual victim intakes
- Organized a series of public events promoting science and scientific careers. Over 7,000 people were reached
- Deployed a school operations database (grading, HR, reporting, etc.) and trained 10 novice computer users to operate it
- Elected by fellow Peace Corps Volunteers to advise Peace Corps leadership on policy and strategy

Advanced Laparoscopic Surgeons of Morris – *Project Manager/IT Specialist*; Florham Park, New Jersey June 2008 – July 2009

- Deployed and customized an Electronic Medical Record / Billing System
- Overhauled the IT infrastructure to be HIPAA compliant; deployed Windows Server and security systems
- Managed a relocation of the entire company (20+ employees) with only 1.5 lost work days

Northwestern Laboratory of Motor Control – *Software Developer/Data Analyst*; Evanston, Illinois June 2000 – June 2003

- Designed, programmed, automated, and documented advanced statistical analysis routines to test a variety of hypotheses regarding neural control of eye movements in primates, leading to results published in the *Journal of Neurophysiology*

EDUCATION

The University of Texas at Austin Master of Science, Business Analytics July 2014

Northwestern University Bachelor of Science, Communication June 2003

Coursework in Integrated Science, 24 hours; Art and Technology, 25 hours

HONORS, AWARDS, POSTERS, AND PUBLICATIONS

- SunGard Consulting New York STAR Award, awarded to a single consultant bi-annually for “exceeding expectations in sales, leadership or deliverables; business or technical innovation; or development of others” July 2015
- Google-published whitepaper: “Scaling to Build the Consolidated Audit Trail: A Financial Services Application of Google Cloud Bigtable” at <https://cloud.google.com/bigtable/pdf/ConsolidatedAuditTrail.pdf> May 2015
- University of Texas at Austin IBM Watson Strategic Engagement Case Competition – 1st Place March 2014
- Texas Business Analytics Distinguished Student Fellowship (\$10,000 Tuition Award) July 2013

ADDITIONAL INFORMATION

Languages: Working Knowledge in Swazi; Conversational in Zulu

Work Eligibility: Eligible to work in the U.S. with no restrictions