

MICHAEL W. SHERMAN

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TECHNICAL SKILLS

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

Data Science: Natural Language Processing, Machine Learning, Statistics, Deep Learning/Neural Networks, Graph/Network Analytics

Big Data/Database: Hadoop, MapReduce, Google Dataflow/Apache Beam, Hive, Storm

Programming: Python, Java, Git, Subversion, Agile Development (Scrum)

Database: Hbase/Google Bigtable, Google BigQuery, SQL, Oracle, PostgreSQL, Neo4j, MySQL

Cloud: Google Cloud Platform, AWS

Operating Systems: Linux/Unix, Bash Scripting, Windows, OS X

SELECTED PROFESSIONAL EXPERIENCE

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

September 2015 – Present

- Head Data Scientist on a Bloomberg Law product creating structured data from a 100GB+ corpus of legal documents
- Refine, monitor, evaluate, improve, and prototype changes to a natural language processing pipeline of multiple machine learning model types, including structured prediction, single-instance classification, unsupervised learning, and graph processing
- Audit and upgrade an existing machine learning codebase, and maintain/code user-centric model and pipeline evaluation routines
- Mentor and supervise junior employees and interns; delegate work to junior data scientists; stand in for project manager
- Won a department-wide technical award for demonstrating the efficacy of deep learning on natural language processing tasks, presented findings company-wide
- Collaborate with legal experts on product design, with special attention to applications of machine learning
- Supervise and monitor lawyers manually annotating training data for machine learning models; design the annotation tasks

SunGard Consulting Services – *Senior Consultant (Data Science)*; New York, New York

July 2014 – September 2015

- Managed a data science/analytics team as part of a larger effort to bid for the Consolidated Audit Trail (SEC Rule 613)
- Wrote multiple sections of SunGard's RFP rebid to build the Consolidated Audit Trail, and architected the proposed big data system (on the strength of this rebid, SunGard became one of three vendors in final consideration for this \$500 million+ project)
- 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 model using EDGAR data to predict future corporate bankruptcies
- Designed, built, and deployed a suite of analytics and visualizations (Tableau) 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
- 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 days of office closures

Northwestern Laboratory of Motor Control – *Software Developer/Laboratory Aide*; Evanston, Illinois

June 2000 – June 2003

- Programmed/documented experiments and data processing routines supporting the testing of hypotheses to explain neural control of eye movements in primates. Supported 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, Communications

June 2003

AWARDS, ARTICLES, AND OPEN SOURCE CONTRIBUTIONS

- Code submissions to Gensim, a popular open source Python library for building text models on large corpora June 2017
- SunGard Consulting New York STAR Award, awarded to two consultants 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: Basic Swazi and Zulu

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