

# 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 Analytics, Text Analytics

**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

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

- Manage the data science and analytics aspects of SunGard's bid to build the Consolidated Audit Trail (SEC Rule 613)
- Built a system organizing equities and options transactions into directed graphs (170 million transactions processed per second), 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

**Demiurge Studios** – *Quality Assurance Tester*; Cambridge, Massachusetts October 2007 – May 2008

- Performed software testing on *Mass Effect* for PC and *Brothers in Arms: Double Time* for Nintendo Wii. Both were certified as free of serious bugs on initial submission to Microsoft and Nintendo, respectively
- Wrote a 100+ page functionality checklist for a publisher's quality assurance team, ensuring testing covered all features

**Harmonix Music Systems** – *Quality Assurance Tester/Head Tester*; Cambridge, Massachusetts June 2005 – March 2006

- Trained and supervised a team of four first-time software testers.
- Tested the PlayStation 2 games *Guitar Hero* and *Karaoke Revolution Party*, including European language translations

**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

*Overall GPA: 3.93 (Rank 1 of 51)*

**Northwestern University** Bachelor of Science, Communication June 2003

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

## HONORS, AWARDS, POSTERS, AND PUBLICATIONS

- 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
- Original research poster: "An Expected Value Model for Maximizing Sales Tax Audits" presented at the Texas Workshop on Social and Business Analytics March 2014
- University of Texas at Austin IBM Watson Strategic Engagement Case Competition – 1<sup>st</sup> 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; Basic Knowledge in Russian

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