Matthew I. Michie

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Qualifications

Clearances: Held Department of Energy (DoE) Q-Clearance (issued 2005)

Certifications: Six-Sigma Green Belt Certified (with additional Design for IT training)

Training: Web Application Hacking (owasp.org), Oracle DBA Administration, Java Tapestry

Languages: Python

Education

Bachelor of Science in Computer Science, May 2003.
New Mexico State University, Las Cruces, NM.

Experience

Twitter — *Senior Site Reliability Engineer*
Seattle, WA — **July 2013 − PRESENT**
My first year at Twitter I was the Lead SRE for Mergers and Acquisitions, and worked with MoPub, Crashlytics, and Gnip to assist them in migrating from AWS to Twitter infrastructure. My second year at Twitter, I transitioned to running Tier-0 services, as a SRE for Zookeeper and Scribe. I changed the deployment cadence of ZooKeeper with Python automation from once per quarter to weekly, increasing reliability across all services which depend on ZooKeeper (essentially everything).

Amazon.com — *Senior Systems Engineer*
Seattle, WA — **July 2007 − July 2013**
During my six years at Amazon, I spent the first four on S3. While there, I was part of the original ops team that made the cloud a reality. I was in an oncall rotation with thousands of servers, multiple data-centers across several continents, with dozens of load balancers and a customer base with high expectations of reliability, durability and low latency. I was paged more than 1,500 times, and could still laugh (perhaps maniacially).

I wrote a bunch of Python code that is still used at Amazon. (Search BenderLib, and Wintermute in Apollo).

After four years, I moved out of Amazon Web Services into Digital. I was the first ops engineer on the Echo project, and built developer productivity tools as regular source control, build or deploy systems weren't available to us due to secrecy. Later, I drove ops readiness and load test reviews for the org across multiple teams. I then recruited and hired a team of support and system engineers to act as Tier-3 escalation for Echo customers.

Peak Systems — *System Administrator*
Seattle, WA — **July 2006 − July 2007**
Sole administrator for over 50 heterogeneous servers, performing configuration and troubleshooting for e-mail, DNS (Bind), Apache, Tomcat, Nagios, MySQL, Oracle, and PostgreSQL. Wrote over 100 wiki pages documenting servers, networks and procedures. Ported a website recieving nearly 5 million hits daily from Solaris to Red Hat Enterprise Linux.

Honeywell FM&T/NM — *Programmer Analyst*
Albuquerque, NM — **September 2003 − March 2006**
Build, harden, deploy, and maintain Solaris, Apache, Tomcat, and Oracle platforms to host secure web applications for the Department of Energy. Completed Six Sigma Green Belt certification and Design for IT project with verified savings to the company of over $40,000. Strong focus on OpenSSL, FIPS-140, PKI, and computer/network security.

Physical Science Lab — *Software Engineer Co-op*
Las Cruces, NM — **May 2002 − April 2003**
Maintain build software, version control, website, and database. Worked with a small team to design and implement Homeland Security Vulnerability Assessment software, using Java, Linux and MySQL. Also experimented with novel search and web-spidering algorithms.

Linux.com — *Contributing Editor*

Telecommute   **June 1999 – January 2002**
Wrote weekly featured articles, edited, then posted submitted content for the top Linux portal, receiving millions of hits (top 10,000 site on the entire Internet). I also acted as interim Editor-in-Chief overseeing and reviewing all site content.

See http://www.linux.com/.

New Mexico State Parking Office   *Computer Technical Asst.*
Las Cruces, NM   **May 1997 – May 2000**
Responsible for maintaining office PCs, interfacing with VM mainframe, and operating embedded hand held ticket generators. Designed website, and acted as an adviser for $150K+ purchase of equipment upgrade.

Sandia National Labs   *Student Intern*
Albuquerque, NM   **May 1998 – August 1998**
Implemented a prototype web based front-end to a commercial Supply Chain Integration Program. The program was a combination of Java, JavaScript, DHTML and HTML, intended to run in a web browser and therefore was network transparent and platform independent. I gained experience working with corporate/government standards and regulations

See http://www.sandia.gov/.

WhiteHorse Communications   *Tech Support Engineer*
El Paso, TX   **July 1996 – May 1997**
Worked with customers troubleshooting networking problems across a variety of platforms including UNIX, Windows, and Apple Macintosh. I also worked corporate accounts, and performed occasional on-site troubleshooting and installation.

References
· Doug Grismore - douggr@amazon.com

· Pat Lawrence - pala@amazon.com

· Eric Wagner - ericw@amazon.com