

Donald Sizemore, II

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Experience:

Research Data Management Core (*née* Odum Institute) (June 2015 – present)

Infrastructure Engineer

- Support the Core's Digital Preservation and Virtual Research Infrastructure initiatives
- Implement, upgrade and maintain the UNC Dataverse and its ancillary services in collaboration with Harvard's Institute for Quantitative Social Science
- Automate systems installation and configuration using Ansible, Docker/Podman, Kickstart and Singularity
- Automate continuous integration testing, work closely with Harvard IQSS to improve Dataverse software quality
- Troubleshoot and performance-tune Odum's VMware and XCP-NG clusters, configure and tend NetApp storage
- Write bash, PowerShell and Python scripts to automate data collection, cleaning and processing for research projects
- Service technologies include Apache, Dataverse, Payara, iRODS, LDAP/Kerberos/Shibboleth, Postgres, and Rstudio

UNC School of Media and Journalism (March 2010 – June 2015)

Systems Administrator, Information Security Liaison and de facto Webmaster

- Install, configure and maintain Windows 2012, Macintosh OS X, Red Hat- and Ubuntu Linux servers
- Manage virtual servers using VMware's vCenter and ESXi, configure and maintain NetApp storage services
- Assumed responsibility for the School's 65+ CMS-based web sites when the webmaster position was cut
- Work closely with faculty and graduate students to develop technical solutions for academic and research projects
- Account management through Active Directory, Kerberos and LDAP integration on servers and desktops
- Implemented service monitoring and configuration management solutions for uniformity and reliable service
- Focus on usability, reliability, and organizational compliance with campus IT security guidelines
- Support multimedia and web programming labs, instructor stations, and faculty, staff and student workstations
- Emphasis on excellent customer service and demonstrated work ethic

ibiblio.org, formerly sunsite.unc.edu (Apr. 2006–Mar. 2010, Aug. 1997–Aug. 1998, May 1999–Aug 2003)

Systems Administrator, Graduate Student Mentor, Grant Support and Service Outreach

- Responsible for ibiblio's web clusters, powering 2,000+ web sites 24/7/365, serving up to 24 million hits per day
- Responsible for ibiblio's fifty production servers: web, database, radio and video streams, legal Bittorrents
- Responsible for ensuring ibiblio's data integrity, planning for disaster recovery, and monitoring system security
- Install, configure and monitor ibiblio's production Netapp filers and Linux-based NFS file servers
- Configure and tune Apache httpd, Squid, MySQL, Postfix, Mailman, and other open source services
- Support popular CMS packages such as Wordpress, MediaWiki, Joomla and Slashcode, custom PHP/Perl
- Planned and executed a major data center migration, moving fifty production servers while minimizing downtime
- Managed ibiblio graduate student workers (varying from 3-8, depending on the school schedule) on various projects
- UNIX support for SILS faculty research projects, graduate students and other campus groups
- Administrative contact for ibiblio as it interfaced with the Internet Archive, the Fedora Project, NCSU's Virtual Computing Lab project, the Linux Documentation Project, and other research projects
- Attending member of the Internet Archive's Open Content Alliance and OpenLibrary Project

N.C. State University (August 2003 – April 2006)

- Technical consulting and purchasing for the Department of Biochemistry and the North Carolina Sea Grant College
- Single-handedly supported approximately 200 machines and many more human beings

Education:

Graduate: School of Information and Library Science, UNC-Chapel Hill

Completed Master of Science in Information Science in May of 2003.

Undergraduate: School of Journalism and Mass Communication, UNC-Chapel Hill

Completed the school's Multimedia track in June of 2000.