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Systems Administrator II

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Berrie Watson

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EDUCATION:

B. A. The Florida State University, Arts & Sciences

1995

ACADEMIC EXPERIENCE:

Management Positions

Head, Library Systems & Technology. 7/2010 to present

Nelson Poynter Memorial Library, USF Libraries, University of South Florida

Lead the library Systems department, supervise daily technology, networking, security and computing operations for the USF St. Petersburg campus library. Directly supervise two direct full-time reports, the manager of a Student Technology Center and helpdesk, and a Systems Analyst. Indirectly supervise two part-time OPS workers. Support and enhance the student experience and staff productivity through the procurement, installation and configuration of computing, networking & other technology infrastructures. Maintain library-specific systems both on premise and online for library operations, web content, archiving and forms. Gather statistics and summarize progress through a yearly departmental report.

Notable Accomplishments:

- Establishment the Student Technology Center: Helpdesk, MakerSpace and STEM Robotics lab. Creation of an accompanying web tool for technology location, assistance and student facilitated learning at AppGuides.stpete.usf.edu. Tool is a dynamic portal that allows students to both manage and use QuickStarts for library-based technology,
- WordPress to LibGuides Migration, including JavaScript, forms, all functional elements, including the web design of main page and secondary pages to allow multiple editors to manage content. A user experience committee conducted video recorded sessions to guide web placements and structure of the site navigation system.
- Migration from EMC Data Storage Array to VSAN VMWare multi-home ESX-based solution to triple storage and backup for the USF St. Petersburg Library.
- Procure, install and provision of a VMWare Infrastructure to virtualize servers to reduce footprint, including installation, configuration and maintenance of VMWare ESX hosts and EMC Storage Array RAID5 containers.
- Implementing self-checkout of technology through an IT locker system.
- Multiple physical space expansions of computing within the library, including data termination, networking switch configuration, power management elements and Microsoft Group Policy management to secure all computing in a high volume, student use setting.
- Implemented a true 10GB network backbone in support of Online Learning to archive data to an EMC VNX5300 storage array, including primary 10GB fiber aggregate and campus-based switches.
- Adoption of a Cisco-based firewall solution through use of PIX, ASA and FirePower products, including a NAGIOS network/NetFlow inspection and data analysis tool to guard against network intrusion.

Technical Positions

Systems Administrator, Library Systems & Technology. 1/2002 to 7/2010

Working with the Systems Team that includes stakeholder librarians, evaluate the computing needs of the library and implement computing and server-based upgrades as FCLA grant funding allows. Supervise one full-time OPS worker that provide technical support of library open use computing labs and spaces.

Notable Accomplishments:

- On-premise adoption of content management systems including DreamWeaver/Contribute, WordPress, Linux Apache, LAMP.
- Assisted in Creating DSpace Repository, late 2010, managing Linux servers in support of DSpace.
- Created Linux-based SENDMAIL server for supportive email services for ILLiad, ALEPH.
- Created the first and only USF Library firewall to protect staff computing from intrusion and malware, filtering messages and network traffic while allowing ALL library functions to operate safely through Microsoft Threat Management Gateway and proxy server.
- Implementation of Microsoft Exchange Server and Outlook Web Interface for Staff, joining to USF FastMail forest domain for Global Addressbook Management
- Created the first Online/Virtual classroom for USF St. Petersburg courses through a team of redundant video servers and brought one of the first green-screen use, faculty with presentation style online learning systems to USF.
- Implemented Pharos-based printing for redundant printing at release stations via payment card, using multiple large multifunction printers. Adjusted for cash-based printing for all users establishing system for handling cash with the USF St. Peterburg Cashier's office.

Coordinator in Campus Computing. 1/1993 to 6/1995

Server Administrator, web designer and desktop support specialist for multiple labs. Lead computing support for faculty for the campus on multiple platforms.

Notable Accomplishments:

- Working through a web design committee, was the sole technician to redesign the USF St. Petersburg Campus website, including all primary areas and allowing content owners to maintain content.
- Created the first USF St. Petersburg Microsoft domain infrastructure and created the functional roles of servers for the STPT domain to supply data management, printing, and security to computing.

AWARDS & HONORS

2011	Outstanding Employee Award, USF St. Petersburg
2007	Staff Quiet Quality Award, USF St. Petersburg
2000	Y2K Technology Preparation Award

LIBRARY SERVICE:

2020 – present	IT Change Team
2020 – present	USF Libraries Management Group
2019	Augmented Reality/Virtual Reality Faculty Learning Community
2018 – present	Library Web Committee, Chair

2018 NPML User Experience Committee: Website Usability Assessment
2018 – present NPML Digital Archive Team
2010 – present Library Leadership Team

PROFESSIONAL CERTIFICATIONS

Microsoft Certified Systems Engineer, MCSE Core
Microsoft Certified Professional, MCP

PROFESSIONAL MEMBERSHIP:

VMware User Group
Microsoft MCP Group
CISCO DevNet Group

LANGUAGES: Fluent in English, Basic German, and Basic Ukrainian