

MICHAEL S. ROBINSON

OVERVIEW

Skilled computer professional with a solid educational background in Management Information Systems. Experience in information technology in diverse areas ranging from systems administration, programming, web development and design, to computer consultation, e-commerce development and deployment, strong skills in solving troubles. Responsible, accurate, cooperative, able to work both individually and as a part of a team.

PROFESSIONAL SKILLS AND KEY COMPETENCIES

- **Operating Systems**

IBM Mainframe ;AIX ;MVS/OS ;MS/DOS ;Windows ;Linux (Red Hat, CentOS, SUSE, Debian, Arch, Ubuntu) ;BSD (FreeBSD, NetBSD, MacOS) ;VMware (ESXi, vSphere, vCenter) ;Networking (Cisco, Enterasys, Extreme Networks, Ubiquiti Networks)

- **Hardware**

Intel ;Mac ;RS/6000 ;All General Hardware Components (SAS, SATA, PCI, DRAM, Processors, etc)

- **Storage**

NAS / SAN (NexSAN, Imation, NetApp); ZFS; Fiber Channel; NFS; iSCSI; Snapshots; Replication; vSan

- **Programming Languages & Web**

BASIC ;Pascal ;ANSI-C / C++ ;Java ;REXX ;COBOL ;JCL ;SQL ;GPSS ;Perl ;Python ;PHP ;Shell Scripting (Korn Shell (KSH), BASH, CSH) ;Microsoft Visual Basic

- **Web Technologies**

HTML ;XML ;CSS (Cascading Style Sheets) ;JavaScript ;PHP ;Flash ;Dreamweaver ;Drupal ;WordPress ;IBM WebSphere (Net.Commerce)

- **Applications**

Sendmail ;Postfix ;ProFTP ;Apache HTTPD ;Jetty ;SpamAssassin ;ClamAV ;Netfilter IPTables (Packet Forwarding, Packet Mangling, Firewall, Network Address Translation) Spectrum Protect ;Veeam Backup & Replication ;OpenLDAP ;FreeRadius ;Zimbra Collaboration Suite ;Jetty ;OpenNMS ;Zabbix ;Ansible ;Puppet ;vCloud Director ;Terraform ;Packer ;OpenStack; Docker

- **Office/Database Software**

Oracle ;DB2 ;MySQL ;Lotus Notes ;Microsoft Access ;Microsoft Visual Studio ;Adobe Photoshop ;Adobe Dreamweaver

- **Networking**

Administration ;Software/Hardware Installation & Configuration (VLAN Tagging, Teaming, Trunking, etc); Firewall; IDS / IPS; Packet Shaping ;pfSense ;FortiNet (FortiGate)

DevOps Engineer / Senior Linux Administrator

[May 2018 – November 2018] [Analog Devices (Carlton National), Tampa, FL]

- **OpenStack**
 - Built and documented Ansible playbooks and Puppet modules for deployment of custom OpenStack environments (CentOS and Ubuntu) for use as back-end environment for product
- **vmWare**
 - Provided support for legacy vmWare environment
- **Docker**
 - Built docker-compose scripts to deploy custom Docker containers
- **Ansible Tower (AWX)**
 - Wrote custom playbooks for automated deployment of VMs to OpenStack environment
- **DevOps Tools**
 - Used Atlassian suite of DevOps tools for source versioning, documentation, and task tracking. BitBucket (git repository), Jira (task tracking), and Confluence (documentation)
 - Wrote custom Vagrantfiles for rapid testing of deployment scripts
 - Built custom VMs using Packer and Terraform
- **Monitoring**
 - Built and maintained centralized syslog server using SysLog-NG, Elasticsearch and Kibana
 - Built and maintained Zabbix server using Grafana for reporting

Internet Manager / UNIX Administrator

[July 2003 - October 2017] [Marietta College, Marietta, OH]

- **E-Mail**
 - Migrated Mail/Web server from Dec UNIX to Solaris within 3 months of hire
 - Migrated email system from single UNIX server to Zimbra Collaboration Suite on RHEL 5 in Summer 2009
 - Migrated Zimbra Collaboration Suite from RHEL 5 to Ubuntu 14.04
 - Assisted in migration to Office 365
- **Identity Management**
 - Migrated OpenLDAP server and scripts to EduPerson schema on RHEL 5/CentOS 5

- **Programming**
 - Wrote Perl and PHP code for servers including LDAP, E-Mail, Account creation/modification, Course Management System, DataFeeds, System Monitoring, HelpDesk, Text-A-Ticket, Self-Service Guest Account Management and nightly backup
- **Portal**
 - Administered UPortal portal and developed new channels on RHEL 5/CentOS 5 (2004-2009)
 - Assisted Microsoft SharePoint migration
- **Course Management System**
 - Administered WebCT on RHEL 3-5 and wrote datafeeds for automated population of course data
- **Dial-Up (2003-2016)**
 - Migrated dialup authentication from Tacacs+ to Radius (FreeRadius on RHEL 3-5).
- **Anti-Spam / Anti-Virus**
 - Coded and implemented open source Anti-Spam and Anti-Virus solutions on mail server for ~3000 accounts (2004-2009)
 - Wrote custom quarantine system using PHP and MySQL
 - Saved over \$16,000 per year compared to alternative
- **Network Management System**
 - Setup and administered Zabbix (Network Management) server to track outages and reduce downtime on Ubuntu 12.04-16.04
 - Saved \$20,000 per year compared to alternative
- **Networking**
 - Managed Extreme Network software (NetSight, Network Access Control)
 - Served as backup for management of Switches and Aps
 - Setup and administered deployment of Ubiquiti UniFi switches and APs
- **DNS**
 - Managed DNS and DHCP server on RHEL 5-6/CentOS 5-6 for domain including SPF, DKIM, and DMARC records.
- **Streaming Media**
 - Setup and administered Real Networks Helix server (2007-2014) on RHEL 5-6 and Ubuntu 14.04
 - Wrote custom database and scripts to secure copyrighted content
 - Complete solution saved over \$8,000 per year compared to alternative

- **Web Conferencing**
 - Implemented localized license management system on RHEL 5 for Citrix GoToMeeting using corporate API
 - Coordinated Web Conferencing and provided IT support for Board of Trustees meetings.
- **Vendor Relations**
 - Negotiated hardware and software purchases
 - Recommended new technologies
 - Sized hardware based on technical requirements
- **VMware**
 - Spearheaded server virtualization project
 - Reduced costs by over \$1,400 per server
 - Implemented and maintained vmWare Infrastructure cluster including vmWare vCenter and vmWare Consolidated Backup (VCB) using IBM Blades and IBM DS3400
- **Storage**
 - Managed production SAN / NAS storage
 - Storage environment evolved from IBM branded Engenio Fiber Channel array to NetApp Fiber Channel, iSCSI, and NFS array to a NexSAN iSCSI and NFS array using dual 10GB Ethernet interfaces
 - Chose and implemented solutions for replication and backup of SAN data
- **Helpdesk**
 - Developed and managed relationship with third-party call center
 - Turned around call times and ticket accuracy
 - Assisted students, faculty, and staff with technical issues
- **Technical Support**
 - Developed and presented training and reference guide for employees on use of Zimbra Collaboration Suite
- **WebMaster**
 - Part-time webmaster (2003-2005)
 - Served on webmaster hiring committee
 - Administered primary college website on RHEL 4-6 / CentOS 4-6 (2003-2016)
- **Backup**
 - Was responsible for Linux/UNIX, Windows, and vmWare backup server.
- **IT Security**
 - Set policies, managed servers and appliances, evaluated solutions

- **Ansible**
 - Setup service and managed playbooks
- **Digital Signage**
 - Setup and managed BrightSign hardware
 - Created templates and HTML5 pages for rendering announcements, weather, calendar and news feeds
 - Setup and managed Concerto Digital Signage server on RHEL 5-6 / CentOS 5-6 for end-user management of slides
- **Syslog**
 - Setup and managed SysLog-NG server and GrayLog server for system monitoring and NAT packet logging from PFSense
- **PFSense**
 - Setup and managed PFSense server
 - Managed external firewall for campus
- **Asterisk**
 - Setup and managed Asterisk server (FreePBX) and VoIP phones (GrandStream)

Hardware Test Technician (Linux)

[March 2003 - July 2003] [IBM (CTG), Research Triangle Park, NC]

- Tested integrated hardware components on IBM servers using Linux and Windows

E-Commerce Analyst

[October 1999 – April 2002] [IBM (DynPro), Research Triangle Park, NC]

- Conducted problem resolution through an internal database and product launches for ShopIBM North America
- Created data feeds used for the IBM Global ShopIBM project
- Conducted Development work on AIX and Linux.
- Created complex, optimized queries using SQL (DB2) for a large internal database using Shell Scripting, Java, and Perl.
- Performed database cleanup supervising another staff member
- Provided technical assistance to webmaster of contract firm in moving corporate website from Windows NT/2000 Used knowledge of various Linux Applications to set up, configure, and administer new environment.

COBOL Tutor

[Fall 1998 - Spring 1999] [West Virginia University Institute Of Technology]

- Tutored MIS students in COBOL I, II and Mainframe (JCL)

CONTRACT EXPERIENCE

[February 2018] [Comco, Inc., Pinellas Park, FL]

- Performed week long computer upgrades at corporate headquarters
- Replaced firewall with PFSense firewall with OpenVPN server
- Replaced unmanaged switches with EdgeRouter managed switches
- Virtualized file server and mail server (MDaemon)
- Migrated MDAemon server to Let's Encrypt for SSL certificates
- Migrated accounting system from Data Pro to QuickBooks Enterprise
- Repurposed 3 physical servers for use as Proxmox VE nodes (VMs and Containers)
 - Enabled daily and weekly backups for all major servers
 - Enabled replication between nodes for disaster recovery
- Migrated desktops from Windows 7 to Windows 10 with Microsoft Office 2016

EDUCATION

[1999] [WEST VIRGINIA UNIVERSITY INSTITUTE OF TECHNOLOGY: Montgomery, WV]

[BACHELOR OF SCIENCE IN MANAGEMENT INFORMATION SYSTEMS (MIS)]

[2014] [Extreme Networks Certified Specialist – Wireless]

AWARDS & PUBLICATIONS

[November 2011] Marietta College Quality Service Award

[April 2016] Marietta College inSPIRE Award (employee service award)

ACTIVITIES & AFFILIATIONS

- **Triangle Linux Users Group**
- **Triangle BSD Users Group**
- **Church Volunteerism**
 - Video Production (89th anniversary, 90th anniversary, Arts & Crafts Fair)
 - K-12 Student Backpack Program
- **Home Lab**
 - Networking (Router, Switches, WiFi APs, Cabling)
 - Servers
 - Home Automation
 - Home Security