

# Michael S. Koller



## Summary of Qualifications

- Platforms: Intel x86-64, Sun SPARC, Apple Mac
- Operating Systems: Linux, Microsoft Windows, Sun Solaris, HP-UX, Apple OSX, iOS, Android OS
- Languages: Java, C/C++, PHP, Perl, Unix shell script
- Network: TCP/IP, NFS, SSH, FTP, Microsoft SMB/CIFS, RPC, YP/NIS/NIS+, LDAP, DHCP, DNS, HTTP(S), SSL, SNMP, Sendmail/Exim/Postfix-SMTP/POP3/IMAP
- Internet: Servers: Apache, Nginx, MS IIS, Tomcat, JBoss, AWS Cloud, BEA WebLogic  
*Programming*: Java/J2EE, MVC, REST API, JSON, JDBC, JNDI, XML/SOAP, Microservices, PHP, CodeIgniter, Zend, JQuery, JavaScript, HTML, PL/SQL
- Packages: NetBeans, JetBrains IntelliJ, Eclipse IDE, MS Visual Studio, Jira, Ant/Gradle, SVN/GIT, LAMP, Puppet, Nagios, VMWare, Docker, Proxmox, Ceph, KVM, LXC, OpenVZ
- Databases: MySQL, Oracle, Sybase, MSSQL, PostgreSQL

## Education

Rollins College Winter Park, FL Graduated

### **B.S./Computer Science**

- Minor in Math

Brevard Community College Cocoa, FL Graduated

### **A.A./General Studies**

## Professional Experience

BARN LIGHT ELECTRIC Titusville, FL Jul. 2011 – present

### **IT Manager / Senior Systems Engineer / Systems Support Architect / Software Engineer**

- Responsible for the management of all IT operations including production and development Intel Linux servers, Windows/Macs desktop hardware and software management, web based software development, and secure VPN network infrastructures involving multiple locations.
- Design and code a reporting facility integrated into an eCommerce platform based on MVC to retrieve date specific sales data.
- Develop and deploy PHP/API software modifications to facilitate over 2000+ product customizations.
- Design and deploy a Cloud based architecture to facility a production infrastructure using Ceph storage to host all corporate applications using KVM, LXC, and OpenVZ containers.
- Install and manage a company based ERP system using Microsoft Dynamics Navision with Windows Server 2016 to include all daily functions for the Sales, Inventory, and Accounting departments.
- Provide Apache/Memcache/Redis/MySQL database, and Linux server administration for all production and development eCommerce websites.
- Provide system administration and support for SolidWorks PDM Vault servers housing all product CAD images.

- Manage a team of Desktop Support Specialists coordinating daily activities including system and application updates, MS Office 365 access, data preservation of critical workstations, employee remote access to internal systems, and workstation outage troubleshooting.

WALT DISNEY WORLD  
Orlando, FL

Jan. 2011 – Jun. 2011

**Development Systems Support Architect / Deployment Team**

- Provide Linux system and Java/PHP development application support for 55 JBoss AS clustered servers hosting internal and external corporate web based applications.
- Participate in team code reviews, product documentation, and QA testing.
- Manage daily activities including software development debugging, system and database backups and restorations, development and production application deployments.
- Daily activities included using Confluence and Jira to handle incoming requests and distribute workload.
- Coordinate and assist software developers in determining root cause resolutions isolating application versus system environment issues.
- Manage a set of F5 network firewall appliances to restrict access between software, database, and external zones.

BECKMAN COULTER, INC.  
Miami, FL – Brea, CA

Oct. 2006 – Dec. 2010

**Systems Support Architect / Senior Systems Engineer**

- Design and develop Java/J2EE WebLogic Portal / Oracle applications to authenticate against Server2003/Active Directory servers in order to present Support technicians with web based user interfaces to communicate and manage off site Beckman/Instruments.
- Development of an appliance based Java applications to pass SOAP messages between Beckman/Coulter instruments and the Data Collection Portal.
- Provide communications between existing applications and database engines using TIBCO BusinessWorks as an event driven message processor.
- Development of a JBoss/MySQL (Java) based SOAP Message simulator to assist instrument developers in speeding deployment of Beckman/Coulter instruments which communicate remotely with the Data Collection Portal.
- Provide backline system, network, and application support for Sun database servers and HP WebLogic servers, which make up the Data Collection Portal, communicating with remote Linux and Windows based appliances.
- Utilize Network sniffing tools such as tcpdump, windump, nmap, ethereal, and ssldump to verify correct messaging between locations.
- Manage critical daily activities using Confluence/Jira in supporting multiple environments including software development, validation and verification, production deployment, and customer support consisting of web based applications.
- Use standard Linux OS performance tools, such as iostat, vmstat, top, and netstat, to analyze the system conditions on the Linux appliance

under heavy load with multiple instruments sending the maximum number of messages per second.

- Create custom installations of RedHat Linux including system monitoring applications and security elements such as IPtables firewall, SELinux, ClamAV, and Snort monitoring.
- Create custom installations of Microsoft Windows XP including netsh NAT Firewall rules, Group Policy changes, anti-virus and Snort monitoring.
- Provide backline system, network, and application support for Windows based Beckman/Coulter instruments which provide Remote Desktop sharing utilizing RDC and/or PCAnywhere.
- Development of RedHat Linux and Microsoft Windows XP based appliances to provide remote communications between Beckman/Coulter instruments located in offsite hospitals and centralized Sun Fire and HP 9000 servers.

SUN MICROSYSTEMS, INC.  
Menlo Park, CA

Apr. 1997 – Sep. 2006

### **Systems Support Architect / Senior Systems Engineer**

- Responsible for daily operations of customer facing Sun Fire v480, v880 and v1280 based servers running Solaris 8/9/10. Server environments also included staging, test, performance, and training.
- Responsible for Support team managing project assignment and lifespan, resource projection, time management, and current technology training.
- Architect, develop, and deployment of Sun SPARC and x86/AMD infrastructures using Solaris and Linux for the Sun Partner, Sales, Education, and Finance organizations.
- Installed and maintained Oracle and Sybase database engines on SPARC servers. Included writing and maintaining client applications written in Java, C/C++, and Perl scripts to communicate with the databases.
- Architect, setup, and maintain web sites consisting of Sun Java, Apache, and Tomcat web servers using Sun's Identity/Access Manger for Single Sign-on access. Included user access restrictions, CGI scripting, SSL certificate management, and application deployment.
- Provide application support for web facing programs involving 365/24/7 Level 1 and 2 front end web servers, middleware, backend databases, and network troubleshooting.
- Provide system administration on Sun Veritas Cluster servers involving user accounts, security audits, email, system patches, backups, and performance tuning.

AT&T  
Lake Mary, FL

Aug. 1998 – Feb. 1999

### **UNIX System Architect / UNIX System Administrator**

- Re-architect and achieve maximum usage of the existing Sun SPARC E4000 servers, which use Veritas FirstWatch HA to provide a zero downtime web hosting environment.
- Architect a web hosting environment which included installing and maintaining Netscape Enterprise web servers on Sun SPARC E4000 servers in HA environment to support 100+ virtual web sites.

- Create a set of monitoring utilities, using Unix shell/C/Perl, to provide a notification system to reduce or eliminate server downtime.
- Installed and maintained BMC Patrol application for monitoring server resources.
- Provide the architecture and oversee the deployment of Sun SPARC 1000E multi-node servers in support of Y2K and financial applications.
- Maintained NCR multi-node servers in support of HR applications running on numerous Sybase and Oracle database engines.

WESTINGHOUSE, PGBU  
Orlando, FL

Nov. 1997 – May 1998

### **UNIX System Administrator / Software Engineer**

- Maintained Sun SPARC Ultra 4000, 2000E and 1000E servers involving user accounts, security, email, Epoch system backups, system patches, and performance tuning.
- Supported CLARiiON 3000 Enterprise RAID cabinets containing approximately 1000 Gigabytes of hard drive storage.
- Development of disaster recovery information retrieval and procedures, system status health monitors, and system status retrieval CGI web application using C/Perl/Unix Shell.
- Setup and maintained the Westinghouse PGBU Netscape Web server and pages.
- Provided Sun SPARC Ultra/20/10 client support involving hardware and software installations, basic application support, and general system and network troubleshooting.
- Supported Oracle and Ingress database engines residing on Sun SPARC servers.

SUN MICROSYSTEMS, INC., SunSoft  
Los Angeles, CA

May 1996 – Nov. 1997

### **Device Driver Certification Engineer**

- Technical Lead for the Certification of Sun Solaris x86 Device Drivers.
- Architect and development of the Hardware Certification Test Suite (HCTS) application using C/C++/Perl/Unix shell.
- Development of the Solaris Test Automation Facility (STAF) application.
- Development of the CDROM and auto-extraction based Device Driver Update distribution.
- Setup and maintained the Device Driver Certification Lab which involved installation of third party hardware products and certification of Solaris x86 device drivers running on those hardware devices.
- Architect, setup, and maintained the Device Driver Certification Web site.

FEDERAL BUREAU OF INVESTIGATION  
Norwalk, CA

Jan. 1996 – Sep. 1997

### **System Administrator**

- Setup and maintained HP9000 K200/877 servers involving user accounts, security, email, OmniBack system backups, system patches, and performance tuning.
- Development of system status health monitors using Perl/Unix shell.

- Setup and maintained Microsoft NT 4.0 servers involving user accounts, security, email, system backups, system patches, and performance tuning.
- Provided x86 PC client support involving hardware and software installations, basic application support, and general system and network troubleshooting.
- Supported Orion LEADS database engine residing on HP9000 server.
- Setup and maintained the FBI LAJDIG Web server and pages.

MOTOROLA PAGING HQ  
Boynton Beach, FL

Apr. 1995 – Jan. 1996

**System Administrator**

- Maintained Sun SPARC 2000E servers involving user accounts, security, email, Epoch system backups, system patches, and performance tuning.
- Technical Lead for Configuration Management involving monitoring server and client system configuration changes and automating the updating of system software and system patch updates using Perl and Unix shell.
- Provided Sun SPARC 10/20, x86 PC, Macintosh, SGI, and HP client support involving hardware and software installations, basic application support, and general system and network troubleshooting.
- Supported Oracle database engines residing on Sun SPARC servers.

BIONETICS CORPORATION  
NASA Kennedy Space Center, FL

Oct. 1987 – Apr. 1995

**Software Engineer / System Administrator**

- Responsible for computer development and support at the NASA Kennedy Space Center in support of the NASA Life Sciences Support Contract.
- Programmed, using the C language, various Shuttle flight and environmental data acquisition systems including: Environmental Growth Chamber Control System, Biomass Production Chamber, Physical Air Monitoring Station, Aqualab Control System, Walt Disney World EPCOT Center Biomass Production Chamber Display.  
The Data Acquisition systems used Opto-22 A/D boards to read environmental sensors and send the data to a remote file system via a TCP/IP network.  
Acceptable ranges of the data were monitored and corrected actions were initiated by enabling switches on the Opto-22 board.
- Setup and maintained Sun SPARC 2/10 servers, HP9000 840 servers, and Microsoft NT 3.5/3.5.1 servers involving user accounts, security, email, system backups, system patches, and performance tuning.
- Provided x86 PC and Macintosh client support involving hardware and software installations, basic application support, and general system and network troubleshooting.
- Supported Oracle database engine residing on HP9000 server.
- Architect, setup, and maintained the NASA KSC Life Sciences web server and pages.
- Provided Shuttle mission console and video support as Experiment Monitoring Area coordinator for numerous Life Science Shuttle missions.

**Security Clearance** Top Secret; Federal Bureau of Investigation - inactive  
General; NASA - inactive