

Thomas Dale Lynema, B.S.

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The latest version of this resume can be found at

<http://lynema.org/resume>

Work Experience

Western Michigan University in Kalamazoo, Michigan August 2010 – Present Programmer/Analyst Enterprise Applications

- Architect for the Central Authentication Service (CAS) project – Provides campus wide single sign on for web applications. <https://webauth.wmich.edu>
 - Designed a highly-available, load-balanced environment
 - Jboss TreeCache for a shared, in-memory database
 - LDAP for credentials checking
 - Configured Tomcat in a cluster
- Principle Developer for WMULetters – Provides admission letter printing capabilities. Coded using Java SE. <https://wapps.wmich.edu/WMULetters>
 - Over 30 pages of technical design documentation written
 - Web front-end
 - Several Java libraries were utilized
 - JSF 2
 - Spring IoC
 - Spring Security
 - Spring LDAP
 - Back-end for processing and printing letters
 - Several Java libraries were utilized
 - Quartz Scheduler 2
 - Runs as a native process using Java Service Wrapper
- Technical Consultant / Trainer for WMU Authorized User – Provides a front-end to systems that display student information and allow for authorized people to pay bills. Coded using Java SE. <https://wapps.wmich.edu/authuser/>
- Principle Developer for LDIContentFilter – Provides a JMS to webservice bridge between the student information system and e-learning platform. Coded using Java SE.
 - Since we didn't have a Java EE container, it was important that this be written in Java SE and import the needed libraries
 - Posts to a HTTP webservice using HTTP Basic authorization
- Member of maintenance team for GoWMU – Provides a one-stop portal for students, staff, and faculty of Western Michigan University.
- Rewrote existing applications to take advantage of modern development processes
 - [The modern development processes are as follows:](#)
 - [Maven](#)
 - [Externalizing configuration](#)

- Part of a team that standardized Java development at Western Michigan University
 - The standards implemented are as follows:
 - Revision control using subversion
 - Using the Eclipse IDE
 - Continuous integration using Hudson
 - Building artifacts with Maven
 - Maintaining artifacts using Artifactory
 - Managing project enhancements and defects using JIRA

FTD Inc. in Downers Grove, Illinois September 2004 – July 2010

Java EE Developer

October 2008 – July 2010

- Developed the customer relationship management software that powers FTD.com as part of the development team.
- Wrote application code using our core technologies: Java EE, Struts, Oracle PL/SQL, and JavaScript.
- Created and maintained effective communication lines with business analysts to ensure that business needs and goals were met

Systems Architect

January 2008 – October 2008

- Lead migration from Microsoft Visual Source Safe to Microsoft Team Foundation Server 2008 for FTD's Mercury Technology division
- Created C# application to gather client's system information to determine compatibility with our new flagship point of sale software.
- Designed and built Red Hat Linux ActiveMQ messaging infrastructure that provides services for our next generation internal applications
- Created application and server infrastructure documentation
- Migrated multiple applications from legacy technologies to systems compliant with PCI security standards

Network Administrator

February 2007 – January 2008

- Managed the companies' SSL certificates
- Analyzed and provided recommendations to comply with PCI security standards
- Led upgrade of primary F5 load balancers
- Managed and maintained 3 pairs of F5 load balancers
- Involved with implementing and administrating clustered Checkpoint firewalls on the Nokia IP390 platform
- Managed Bind 9 and Infoblox DNS servers
- Coordinated successful effort to re-architect the internal network to handle increased holiday traffic
- Implemented and administrated Juniper IP1100 devices to provide IDP capabilities to our core network
- Implemented a Juniper SA2000 SSL VPN device with RSA backed two-factor authentication

Senior Integration Engineer

September 2004 – February 2007

- Led migration from Linux 7.3 to Red Hat Enterprise 3.
- Modified Terminfo to map keys to fit our custom application's layout
- Modified Initrd to include non-standard modules

- Coded modifications to migrate applications to NTPL
- Designed setup tool in perl and dialog to aid in initial system configuration
- Server deployment in a datacenter environment with Dell and Sun hardware
- Led hardware procurement changes that resulted in 66% reduction in configuration time for our flagship point of sale software
- Created and maintained software installation cds based on InstallShield
- Used bash, rpm, and automounter to make reliable system installation updates that a non-technical user could run
- Assisted in FTD's highest tech support escalations
- Administrated Quality Center server running on JBoss and Windows Server 2003

Kalamazoo Christian School Association in Kalamazoo, Michigan August 1999 – June 2004

Network Administrator

- Designed and maintained a 1,300 user, 350 workstation, 9 server network running in a Windows Server 2000 domain and Citrix terminal services
- GNU/Linux deployment, configuration, and system administration through ssh, Webmin, and CLI tools
- Windows Server 2000/2003 deployment, configuration, and systems administration through Active Directory and RDP
- Added and administered Sendmail and later a Postfix mail server for the <http://www.kcsa.org> domain running on Debian Linux
- Built, configured, and administered Apache webserver for the <http://www.kcsa.org> domain
- Configured OpenLDAP server with egroupware for task and calendar management
- Defined and administered the following policies
 - Data integrity and security
 - Network security, firewall design and implementation

Education

Oracle Certified Professional

SCJP/OCPJP Oracle Certified Professional, Java SE 6 Programmer - 95% passing score
June 2011

Toastmasters International – Competent Communicator

Currently progressing through the Competent Communicator program to improve communication and leadership skills.

K. Shannon and Associates – Agile Project Management

Two day course focused on agile software development and, in particular, scrum.
August 2011

Linux Professional Institute

Linux Systems Administrator Certification – Level 1, April 2006

Western Michigan University, Kalamazoo, Michigan

Bachelor of Science with a concentration in Computer Science, December 2003

Davenport University, Kalamazoo, Michigan

Supplemental Classes – Basic networking infrastructure, Windows 2000 workstation administration, Windows 2000 server administration

National Science Foundation

Awarded Computer Science, Engineering, and Mathematics Scholarship for 2002 – 2003 academic year

Upsilon Pi Epsilon Honor Society, Kalamazoo, Michigan

Member of International Honor Society for the computing and information disciplines
September 2002 - present

Served as treasurer September 2002 – May 2003

Presentations and Publications

NetFest.org, Lombard, Illinois

Gave Technical Presentations on the following topics:

- OpenVPN July 2008
- SELinux, January 2007
- Diskless IPCop firewall, June 2006
- Virtualization using VMWare and Xen, May 2006
- Network administration through SNMP, May 2006

Linux.com

Building a Linux home media center, January 2006

<https://www.linux.com/news/hardware/servers/8232-building-a-linux-home-media-center>

Linux+DVD

Getting Started With an Embedded Linux Device, Issue No 2/2007

- An introductory article for working with the LinkGear 100 embedded Linux router

Personal and Professional Letters of Recommendations

- Available upon request. I take pride in my work and would be happy to share the resulting positive recommendations with you. Preliminary recommendations can be viewed on my LinkedIn profile. <http://www.linkedin.com/in/thomaslynema>