

# Thomas D. Lynema

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## Work Experience

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### FTD Inc. in Downers Grove, Illinois September 2004 – Present

#### Java EE Developer

October 2008 – Present

- Part of the team that develops the Customer Relationship Management software that powers FTD.com
- Wrote application code using our core technologies: Java EE, Struts, Oracle PL/SQL, and JavaScript.
- Developed tight ties to our business analysts to ensure that business needs 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 build out Red Hat Linux ActiveMQ messaging infrastructure that will provide services for our next generation internal applications
- Created infrastructure and processes documentation covering most of the current infrastructure
- Migrated multiple legacy applications from legacy technologies to systems compliant with current security standards

#### Network Administrator

February 2007 – January 2008

- Managed the companies' high security web SSL keys
- 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
- Heavily involved in the coordination and completion of a 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 Termino to map keys to fit our custom application's layout
- Modified Initrd to include non-standard modules
- Coding 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**

- Network administrator for Kalamazoo Christian School Association. Including East Christian Elementary, West Christian Elementary, Kalamazoo Christian Middle School, and Kalamazoo Christian High School
- 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 www.kcsa.org domain running on Debian Linux
- Added and administered Apache webserver for the www.kcsa.org domain
- Configured OpenLDAP server with egrouppware for task and calendar management
- Defined and administered the following policies
  - Data integrity and security
  - Network security, firewall design and implementation

## **Education**

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### **Linux Professional Institute**

Linux Systems Administrator Certification – Level 1, April 2006

### **Western Michigan University, Kalamazoo, MI**

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

GPA: 3.2/4.0

### **Davenport University, Kalamazoo, MI**

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

GPA: 4.0/4.0

### **National Science Foundation**

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

**Upsilon Pi Epsilon Honor Society**, Kalamazoo, MI

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

Served as treasurer September 2002 – May 2003

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## Presentations and Publications

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**NetFest.org**, Lombard, IL

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

<http://www.linux.com/article.pl?sid=06/01/04/1855257>

**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

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## Additional Skills, Learning, and Technical Efforts

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### Additional Skills and Experience

- Additional Learning Web server Administration (Apache 1.3 and 2.0 running on Linux)
- Database Administration (MySQL on Linux)
- Cisco router configuration
- Extreme Networks switch configuration
- E-mail server administration
- SMTP (Sendmail and Postfix running on Linux using TLS)
- IMAP (Courier IMAP with SSL on Linux)
- POP (Courier POP with SSL on Linux)
- Management and organizational skills
- Checkpoint firewalls
- F5 load balancers
- Experience Administrating the following Microsoft operating systems
- Microsoft Office (97, 2000, XP)
- Citrix Metaframe 1.8
- Raiser's Edge (A fundraising program with a Microsoft database backend)
- Experience administrating networks using the following operating systems
  - Microsoft Windows (3.1, 95, 98, 2000/2003 Server, ME, XP)
  - Linux (RedHat, Fedora, WhiteBox, CentOS, Debian, IPCop, and Gentoo) on Intel x86 and x86\_64 architecture
- Familiarity with working in a business environment and the software development life cycle
- Very comfortable with GNU/Unix core utilities (sed, grep, ps, ls, strace)

- Linux package management with rpm and apt
- Although I can understand and program in any programming language, I have written applications with the following:
  - C, C++, Java, Visual Basic, C#, python, perl, ruby, bash, PHP

As an example of my continuation desire to learn more, I have listed some books in my personal library that I've studied:

- Practical Unix & Internet Security (Garfinkel, Spafford & Schwartz, 2003)
- Linux Programming 2nd Edition (Stones & Matthew, 2003)
- Accelerated C++ (Koenig & Moo, 2000)
- Linux Kernel Development (Love, 2004)
- Running Linux (Welsh, Dalheimer & Kaufman, 1999)
- The Art of Unix Programming (Raymond, 2003)

## **Personal and Professional Letters of Recommendations**

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- Available upon request. I take pride in the job I do, and can get a positive recommendation from any company I've worked for. Preliminary recommendations can be viewed on my LinkedIn profile.