

# James T Lawson

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## Technical Skills

- Languages: Java/J2EE/JNI, C/C++, C# .NET, Perl, Python, Bourne/Korn shell, XSL/T, ASP (VBScript/Jscript), PHP3/4, VB 6
- OS platforms administered: Linux (Debian/Redhat), Win NT4/2K server, AIX (4.3.3-5.3), Solaris (SunOS 5-Solaris 9), IRIX (4.2-6.5)
- Network equipment: F5 BIGIP load balancers. Routers, switches, and firewalls from Cisco and various other vendors.
- RDBMS servers: Oracle 8i/9i/10G RAC, MSSQL 7/2000, Mysql, Postgresql
- Web/App servers: Apache HTTP, Apache Tomcat (Catalina), MS IIS 5, BEA Weblogic 7, Broadvision 1-1 Content Server, Zope

## Work Experience

Dec 2003 – Present      University of Vermont      Burlington, VT

### Senior IT Professional

- Administration, maintenance & troubleshooting of campus central mail infrastructure for 30k users. Clustered filesystem (Redhat GFS) on a 6-node IBM x345 cluster fibre-attached to IBM DS4800s providing IMAP/POP/Webmail service to UVM affiliates. Includes custom coding to adapt UW IMAPd and other support applications to cluster environment.
- Administration, deployment and maintenance of web farm for [www.uvm.edu](http://www.uvm.edu). 6-node Sun v240 farm with Linux Virtual Server load balancers in direct-route mode.
- Developed, ported & deployed network registration ("NetReg") in the residence halls. Unrecognized PCs are not permitted to join the UVM network until the owner authenticates and the machine passes a security scan using Nessus. Machines which do not pass muster are put in a restricted network where they can access selected resources (e.g. Windows Update, Symantec Anti-Virus.)
- System administrator for Project CATalyst, an ERP implementation at UVM. Architecture, installation, configuration & maintenance of IBM pSeries hardware (p550, 520, 510) running AIX 5.3, F5 load balancers, Oracle 10G RAC with DataGuard.
- Member of steering committee for the Vermont Advanced Computing Center, a facility to promote research computing in higher education in Vermont. Worked with research faculty to develop Phase I purchasing schedule for hardware and software: a mix of distributed computing and shared memory facilities.

Nov 1999 – Jun 2003 Xtria (formerly NYBOR.com)

Williston, VT

**Senior Systems Architect**

*(NB: NYBOR.com was acquired by Xtria in October 2001)*

- Lead engineer in project to specify, purchase, install and configure equipment to implement a multi-homed Internet datacenter in Richardson, TX, which today hosts the majority of Xtria's provided solutions.
- Selected, hired, and managed four people as system administrators for Williston, VT and Richardson, TX data centers.
- Development team lead on a Java Servlets/Velocity based web application to provide assessment and analysis of healthcare institutions' compliance with the Health Insurance Portability and Accountability act of 1996 (HIPAA). Made heavy use of object-relational mapping technologies and middle-tier caching.
- Infrastructure and release engineer, providing hardware, network infrastructure, and systems support for the assessment application, and a web-based HIPAA training application, both capable of supporting tens of thousands of simultaneous users. Installed, configured, and maintained SAN, active/passive MSSQL cluster, and BIGIP load balancers. Managed release cycle, autobuild process, and change control.
- Developed COM+ API in VC++ to access Microsoft Cryptographic API, previously only available via the Platform SDK.
- Developed XML and XSL/T-based website for Solucient, LLC in order to integrate with customer's chosen content management system. Used Broadvision 1-1 Content as manager, and Jakarta Xerces & Xalan for XSL translation.
- Implemented and maintained various e-commerce websites, mostly in ASP.

Nov 1997 – Nov 1999 University of Vermont College of Engineering Burlington, VT

**Systems Programmer**

- Installed, configured, and maintained UNIX servers to provide compute, web, email, print, and file services to faculty, staff, and students. Managed college network, routers, switches and firewalls.
- Installed & maintained student labs of Sun, IBM RS/6000, SGI, and PC hardware.
- Managed Oracle8i server for Database Systems course.
- Developed software to interface with student information systems in order to automatically generate and deactivate student accounts.
- Managed work-study students who were responsible for providing helpdesk support and developing software for other departments.

June 1995 – Nov 1997 Physician's Computer Company

Essex, VT

**Support Technician**

- Provided support for medical office management software running under various flavors of UNIX to approximately 120 different client sites.
- Traveled to client sites for installation of RS/6000s and client training.
- Wrote data conversion utilities and other small applications for in-house and customer use in Perl.
- Provided system, telephone, and network administration for office.

**Education**

May 1995                      University of Vermont                      Burlington, VT

BS in Computer Science

GPA 3.04, major GPA 3.52. Minor concentration in English.

**References**

References available upon request.