

## Nathan A. Cosgray

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Seattle, Washington, USA  
[nathanatos.com/contact](http://nathanatos.com/contact)

- Qualifications** SAGE Level III (Intermediate) System Administrator. Six years experience as a system administrator and web application developer. Worked with a variety of users having a broad range of computer skills. Participated in a number of web development projects. Received computer forensics training.
- Citizenship** United States  
European Union (Ireland)
- Education** B.A., Computer Science and History of Art, with Distinction — Indiana University, Bloomington, IN, 1998.  
Certificate, Computer Forensics — University of Washington, Seattle, WA, 2005.  
Recent coursework in Biology, Microbiology and Statistics, 2006-2008.
- Certifications** Microsoft Certified Professional (MCP)
- Professional Memberships** LOPSA – The League of Professional System Administrators  
SAGE — The System Administrators Guild  
USENIX — The Advanced Computing Systems Association
- Professional Experience** Senior Systems Analyst The Seattle Public Library  
June 2008–Present Seattle, WA
- Manage and support Integrated Library System (ILS)
    - SirsiDynix Horizon ILS with HIP iPac, TechLogic ACS self-checkout
    - System administrator for 8 Windows and Linux ILS servers
    - Work with staff, librarians and vendor to troubleshoot and solve ILS issues
    - Provide SQL reporting and scripting support
    - Plan and implement software/hardware upgrades and migrations
    - Manage online catalog shelf map functionality
  - Database administrator for Sybase, SQL Server, Access, and MySQL databases
    - Applications include Horizon ILS, SharePoint
    - System administrator for 6 Windows and Linux database servers
    - Perform backups, troubleshoot problems, and implement software upgrades
  - Author scripts to automate reporting and system administration tasks
  - Manage ticketing system for IT department
  - Assist with routine system administration tasks (tier 2)
  - Accomplishments
    - Wrote 3M/SirsiDynix SIP interface library for ASP.NET
    - Designed and developed staff directory synchronization system
    - Designed and developed public feedback tracking and response application
    - Implemented robust, clustered back-end database for SharePoint intranet
    - Created ILS database mirroring scheme for backup, testing and training
    - Implemented system monitoring for ILS applications



## Technical Skills

*Note: Proficiency levels are indicated for each technology as follows:*

- *(F) — Familiar with the technology. Can execute simple common tasks using the technology, but more complex tasks may require use of reference materials.*
- *(P) — Proficient in the technology. Can execute complex tasks using the technology. Rarely needs to consult references.*
- *(E) — Expert in the technology. Knowledgeable about all aspects of the technology, and commonly acts as a reference for others. Typically this will be a technology that is used daily.*

### Operating Systems

- Microsoft Windows 9x, NT, 2000, XP, 2003, 2008, Vista, 7 *(E)*
- Mac OS X 10.0–10.6 *(E)*
- Linux distributions including Debian, Ubuntu, Red Hat *(P)*
- Sun Solaris 2.5–10 *(P)*

### Hardware

- Dell PowerEdge server line including 1x00, 2x00, 6x00 *(E)*
- Dell RAID storage line including MD1000, PERC controllers *(P)*
- Dell desktop/laptop lines *(E)*
- Apple Mac desktop/laptop lines *(P)*
- Sun Sparc line including Ultra-10, Ultra-60, E420R, Sun Fire V240 *(F)*

### Database Administration

- Microsoft Access *(E)*
- Microsoft SQL Server *(P)*
- Sybase ASE *(P)*
- MySQL *(P)*
- Oracle *(F)*

### Servers and Services

- Microsoft Terminal Services *(E)*
- Numara Track-It! *(E)*
- Microsoft Active Directory *(P)*
- Apache *(P)*
- Samba *(P)*
- VMWare Server *(P)*
- Microsoft Virtual Server, Hyper-V *(P)*
- IIS *(F)*
- OpenAFS *(F)*
- MOSIX *(F)*
- PBS Professional *(F)*
- YP/NIS/NIS+ *(F)*

### Web Production Software

- Adobe Photoshop *(P)*

### System Administration Tools

- SysPrep and Symantec Ghost *(P)*
- Sysinternals utilities *(P)*
- Big Brother, Hobbit, Xymon *(P)*
- Microsoft Operations Manager *(P)*
- Subversion *(F)*

### Networking

- Windows Clustering *(P)*
- Server room LAN design *(F)*
- Linux ipchains/iptables *(F)*
- OpenBSD pf *(F)*
- 802.11b/g wireless access points *(F)*
- Windows RAS (including VPN) *(F)*
- Windows Network Load Balancing *(F)*

### Computer Forensics Tools

- FTK *(F)*
- Hex Workshop *(F)*
- dd *(F)*
- Knoppix *(F)*

### Backup

- DLT and LTO tape libraries *(P)*
- EMC NetWorker *(P)*
- Dantz Retrospect *(P)*
- Veritas NetBackup *(P)*
- Veritas BackupExec *(P)*

### Programming Languages

- HTML *(E)*
- SQL, Transact-SQL *(E)*
- VBScript, PowerShell *(E)*
- ASP.NET (Visual Basic, C#) *(P)*
- PHP *(P)*
- Perl *(P)*
- DOS, Unix shell *(P)*
- C, C++, Objective-C *(P)*
- Java, JavaScript *(F)*
- Python *(F)*
- SAS *(F)*

**Continuing  
Education**

**2010**

– Microsoft Training Course 2310 (ASP.NET Web Development)

**2008**

– Microsoft Training Course 2780 (SQL Server)

**2007**

– PBS Professional 8.0 Training

**2005**

– University of Washington Extension — Computer Forensics

– Microsoft Training Courses 2274, 2275, 2276, 2277

**2004**

– Microsoft Security Summit 2004

– OpenAFS Best Practices Workshop

**2003**

– Indiana University Unix SysAdmin EdCert

– Microsoft Training Course 1560

**2002**

– Advanced NetBackup 3.4 for Unix

– NetBackup 3.4 for Unix

**2001**

– USENIX LISA Conference

– USENIX Tutorials — Intrusion Detection, Performance Tuning

– Oracle 8i Backup and Recovery

– Oracle 8i Database Administration

– Oracle 8i SQL and PL/SQL

**2000**

– USENIX LISA Conference

– USENIX Tutorial — Advanced Solaris System Administration Topics

– Solaris 8 System Administration

**Presentations**

“Instant Messaging Artifacts” (for Computer Forensics 120), August 2005.

**Honors and  
Awards**

Inducted into the Phi Beta Kappa Society, 1998.

Achieved Dean’s List four semesters at university, 1994-1998.

National Merit Semifinalist, 1994.

**Community  
Involvement**

The Wayfarer Cooperative — board member and webmaster, 2005-2010.

Children’s Museum of Indianapolis — Dino Discovery Lab bone preparer, 2002.

Habitat for Humanity — volunteer laborer, 1995.

**Hobbies and  
Interests**

Computing enthusiast — commodity PC hardware, Mac OS X, and Amiga

Radio-controlled vehicles

Hiking, backpacking, skiing, and snowshoeing

Listening to music and attending concerts

iPhone and OS X software development — see [nathanatos.com/software](http://nathanatos.com/software)