

# Peter James Koczan

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## Objective

I am currently employed as a computer programmer/system administrator and not looking for another job at this time.

## Summary of Skills

Experiences include administering and managing servers and hardware, as well as implementing and using several different programs and services. Education background includes a diverse range of computing skills and programs along with a wide array of topics.

## Expertise

- Database server administration
- Database programming
- Backup systems
- Web programming
- Linux administration
- Security
- Troubleshooting
- Hardware and data center management
- Disaster recovery
- Porting and upgrading systems
- User service

## Skills

- Operating Systems: Red Hat Enterprise Linux, Ubuntu Linux, Solaris, Windows XP
- Programming Languages: C, C++, Java, Perl, Python, PHP, Bash, Matlab, SQL
- Database Systems: PostgreSQL, Oracle, MySQL, Sybase
- Web standards: XML, HTML, XHTML, CSS, CGI, mod\_perl, Mason
- Other programs: Office 2007, Open Office, MRBS, Mentor Graphics

## Work Experience

Computer Systems Lab, UW-Madison Computer Sciences Department: 2006 – present

Associate System Administrator/Programmer

Maintain computing environment for instructional and research purposes. Focus on database administration and security, web programming, backup system management, and Linux administration.

Duties and Significant Achievements:

- Assumed primary responsibility for Sushi backup system
  - Made performance and reliability improvements for core Sushi software.
  - Added remote backup servers for reliability and disaster recovery.
  - Supervised student staff in daily use of Sushi backups, restores, and other responsibilities.
- Managed and improved PostgreSQL database servers and services
  - Upgraded PostgreSQL servers from 7.4 to 8.2, 8.3, and 8.4.
  - Added support for new interfaces (JDBC, ODBC) and operating systems (Windows, 64-bit Linux).
  - Added new services and features (group roles, password-based users, fulltext search) for user databases.
- Developed, managed, and maintained database and web applications.
  - Expanded events entry system and corresponding web display system.
  - Created an undergraduate student management application for the Computer Science Department.
  - (In progress) Porting primary department database from Sybase to PostgreSQL.
- Managed graduate admissions data and review application
  - Streamlined and simplified online graduate admissions process.
  - Created and maintained letter generation and mechanisms.
  - Improved data security practices for mining and reviewing data.
- Administered and deployed Linux core software and technologies.
  - Prepared several new releases of Red Hat Enterprise Linux.
  - (In progress) Investigating and deploying ksplice for Linux computer systems to improve uptime and lessen security vulnerability window.

Computer Systems Lab, UW-Madison Computer Sciences Department: 2004 – 2006

Student System Administrator

Maintain computing environment for instructional and research purposes. Assist full-time administrators with projects. Focus on web programming, user service, and hardware.

Significant Achievements:

- Ported PHP web forms to Perl
- Created online tech report management and web display system
- Created new web applications and databases for ordering computers and student management
- Updated teaching materials for Unix Orientation and managed orientation sessions
- Ensured completion of daily backups

## **Education and Honors**

Bachelor of Science – Computer Science – University of Wisconsin- Madison, 2006

- GPA: 3.880 (Cumulative), 3.971 (Major)
- Dean's List (Fall 2002, Spring 2003, Fall 2003, Spring 2004)
- Graduated with distinction
- Member of National Society of Collegiate Scholars, Phi Beta Kappa, Golden Key International Honor Society
- Relevant courses: Data structures, Machine Organization and Programming, Digital Systems, Numerical Analysis, Compilers and Programming Languages, Computer Graphics, Computer Architecture, Artificial Intelligence, Database Systems, Bioinformatics, Algorithm Design and Analysis, Operating Systems
- Other topics of study: History, Political Science, Mathematics

CAPP Program – Lakeland College, Sheboygan, Wisconsin, 2002

- GPA: 4.0

AP Scholar, 2002

## **References**

Available upon request.