

## **Professional Experience:**

### **Impact Telecommunications, 2008-2017**

*Senior Database Administrator:*

- Database administrator for multiple large (2-5 TB) MySQL databases
- Maintain multiple production and test MySQL instances running MySQL 5.7 on Red Hat Linux systems
- Maintain, develop, and tune over 4 dozen MySQL servers comprised of several dozen schemas
- Manage replication, including partial replication and multi-level replication
- Manage and maintain standard tasks to perform basic database functions and provide reports
- Make extensive use of shell scripts, Perl programs, and the "cron" facility of Linux to perform above task
- Devise and execute critical backup procedures for the company's databases
- Create, maintain, and enhance office web site for database group to monitor in real-time the health of system (slave performance, disk space usage, number of connections, *etc.*) using PHP, HTML, Javascript, and AJAX.
- Provide timely reports on the current state of the databases
- Maintain Microsoft SQL Server 2000 database of approximately 100 GB plus other SQL Server 2010 databases

### **Hoover's Inc., 2007-2008**

*MySQL Database Administrator:*

- Database administrator/programmer for both MySQL and Oracle databases
- Maintain multiple production MySQL instances (both MySQL 4.1 and 5.0) running on Debian and Red Hat Linux systems
- Maintain multiple development MySQL instances
- Maintain, develop, and tune several dozen databases of between 20 and 60 gigabytes
- Manage multi-tier replication
- Update production data from corporate feeds
- Plan and architect system upgrades and site improvements to increase efficiency
- Identify and remove single points of failure
- Coordinate with project managers to provide database support for mission-critical projects
- Manage and maintain standard tasks to perform basic database functions and provide reports
- Make extensive use of shell scripts, Perl programs, and the "cron" facility of Linux to perform above task
- Devise and execute critical backup procedures for the company's databases
- Create, maintain, and enhance office intranet web site for systems and database group to monitor health of system and record system change requests
- Assist in managing corporate Oracle database
- Review Oracle PL/SQL stored procedures

**University of Texas at Austin: Office of Telecommunications Services, 2001-2008**

*Operating Systems Specialist*

- Database administrator and SQL programmer for several MySQL databases
- Applications programmer for multiple web-based applications used by both staff and customers
- Webmaster and programmer for multiple web sites hosted by OTS
- Lead in ensuring that public web sites are accessible under such rules and guidelines as the WCAG 1.0 and Section 508
- Programmer (PHP, Perl)
- Webmaster and web programmer for multiple web sites and ensured that public-facing web sites are accessible under the rules and guidelines of WCAG

**UT Austin: IC2 Institute, 1999-2001**

*Oracle DBA and web programmer, EnterTech project:*

The EnterTech project was a specially-funded project of the IC<sup>2</sup> Institute. The project developed an e-learning application that used an Oracle database to power a table-driven application written in Perl.

- Oracle 8i DBA and network administrator
- Oracle SQL, PL/SQL programmer
- Perl programmer
- Wrote and maintained a Web-based utility to enable staff administrators to maintain database data and to enable instructors to maintain class data.
- Wrote an install procedure for the entire product as well as the documentation for it
- Modified the database schema and configuration to improve efficiency.

**UT Austin: Computation Center, 1984-1999**

*Programmer and Database Administrator:*

- Programmer using FORTRAN, C, ISPF, SAS, and SQL/DS on IBM mainframes and UNIX boxes
- Designed resource accounting system for IBM unit of the Computation Center
- Maintained user database
- Wrote a complex user-interface system using the ISPF user-interface program as front-end for IBM's Document Composition Facility

**Teaching Experience**

- Adjunct faculty, Austin Community College, 2000-2008
  - Three years' experience teaching in the Computer Science department

## Jim Lyons - Computer Professional, Austin, TX

- Introduction to Programming – a first course for CS majors using the C++ language covering topics through object-oriented programming
- Introduction to Computers – a survey course of computer technology
- Microsoft Office – each of these classes had a lab in which I taught the Microsoft Office suite (Excel, Word, Powerpoint, and Access)
- PL/SQL language for Oracle's stored procedures
- Six years' experience teaching in the History department
  - Semesters I and II of the two-semester survey course in US History
  - Composed my own lectures for presentation as Powerpoint slides
- PTA chair of technology committee at Leona Doss Elementary School in Austin, 1997-2006
  - Provided computer expertise in the classroom for a curriculum developed by the private firm Future Kids at this elementary school
  - The Future Kids curriculum included simple word processing and graphics programs (such as Kid Pix, The Cruncher, and Print Artist) for grades K-2, and included projects in Microsoft Office products for the older students
  - In a few instances I taught the class, sometimes with the teacher's supervision, sometimes on my own
  - I performed trouble-shooting on computers around the school

### **Education**

BA from the American University in Washington, DC in a combined major of economics and applied statistics.

MA from the University of Texas at Austin in American history.

Certificate in Editing from the Graham School of the University of Chicago