Peter Keane

1503 Ridgehaven Dr.
Austin, TX 78723
512/458–9715
pkeane@mail.utexas.edu

Education

The University of Texas at Austin, Master of Library and Information Science, August 1995.
Concentration in Information Science. Coursework in systems analysis, database theory and design.

Harvard University, A.B. English and American Literature, June 1986.
Coursework in computer programming.

Professional Experience

The University of Texas at Austin (March 1995 - present)

Senior Systems Analyst, Liberal Arts Instructional Technology Services May 2004 - present

Chief Architect/Tech Lead/Project Manager for Digital Archive Services project:

- Designed and implemented DASe web application, a digital repository and web services framework used across the UT Campus for organizing, cataloging, presenting and sharing documents, images, sound files, video, and bibliographic references. Technologies: PHP, PostgreSQL, MySQL, Javascript/AJAX, Perl, Python, Atom/AtomPub, Solr (`http://daseproject.org`).

- Supervised the work of junior programmers on DASe-related programming tasks, including one FTE staff member and numerous student programmers. Introduced REST/Resource-Oriented Architecture in projects, leveraging Atom/AtomPub as well as JSON-based RESTful Ajax.

- Architected and managed cross-unit collaborative projects including distributed file storage for visual resources and REST-services based Blackboard/DASe integration.

Application Programmer, Administrative Applications

- Designed and wrote administrative applications for the College of Liberal Arts, including grant proposal submission/management, data collection application for department-wide surveys, voting tool for running departmental committee election, and various quiz/assessment tools. Work included requirements gathering, drawing up specifications, data modeling (ER-diagram/database schema), and programming. Technologies: PHP (custom MVC framework), Python (Django), MySQL, PostgreSQL, Javascript (jQuery/jQuery UI).

Information Analyst/Programmer, The General Libraries November 2001 - May 2004.

- As part of the General Libraries Metadata Task Force, drew up specifications for and wrote Metadata Registry (digital asset repository) web application for the General Libraries. Technologies: Java/Tomcat, Struts Framework, Apache OJB ORM, MySQL

- Designed and wrote the UT Library Online's "How Do I. . . ?" pages web application, and web-based reference desk scheduler used in libraries across campus. Technologies: PHP, MySQL, LDAP

- Served as a member of the Undergraduate Library's reference department

Professional Librarian, The General Libraries December 1995 - March 1997.

- Developed processes and procedures for the acquisition of networked electronic resources. Worked with faculty and staff members on issues related to access and use of new electronic resources.

- Provided reference desk coverage in the Perry-Castaneda Library.

- Served as interim History Bibliographer.

Harvard University (July 1986 - July 1994)

Reference Assistant, Hilles Library September 1988 - July 1994.

- Worked as a member of the reference department at Hilles Undergraduate Library. Duties included working with OCLC records to reclassify large reference collection, and design and management of barcoding project for undergraduate libraries.

Served on following committees:

- Harvard College Library Strategic Planning Committee on Library Services

- Hilles/Lamont Committee on Online Circulation Implementation

- Hilles/Lamont Committee on Automated Reserves Processing

Technology Skills:

- PHP, Python, Java, Perl, Javascript, XSLT, HTML/CSS

- Patterns of Enterprise Application Architecture: MVC, REST, Client/Server, Object-Relational Mapping

- Authentication/Digital Identity: OpenID, OAuth, UTEID (UT-specific), TED (UT-specific)

- SQL and Relational Database Design (PostgreSQL, MySQL, SQLite)

- Non-Relational Databases: Berkeley DB, CouchDB, Google AppEngine Datastore

- Network Protocols: HTTP, LDAP, Samba/CIFS, SSH, SMTP, Atom/AtomPub, WebDAV, rsync

- XML processing (DOM and SAX) and technologies (XSLT, XQuery, XPath, XProc)

- Source Code management (Git, Subversion, Mercurial)

- Build and Integration Tools (Make, Ant, Hudson)

- Unit and Functional Testing (PHP SimpleTest)

- Metadata Formats/Standards: RSS, Atom, MARC, MARCXML, MODS, METS, FRBR, OAI-PMH, OAI-ORE

- Semantic Web Technologies: RDF, OWL, SPARQL

- Linux System Administration

- Solaris, Mac OS X

- Image processing (ImageMagick, GIMP) and embedded metadata formats IPTC/EXIF

Conference Attended / Talks Given

- OSCON 2005

- ApacheCon 2006

- Open Repositories Conference 2007

- EduCause Southwest Regional 2007 (presented talk on DASe)

- Texas Conference on Digital Libraries 2007 (presented talk on DASe)

- Common Solutions Group Fall 2007 `http://www.stonesoup.org` (presented talk on DASe)

- UT Web Publishers Group FYI, Jun 2008 (presented talk *Real World REST with Atom/AtomPub*)

- Digital Library Federation Fall Forum 2008 (presented talk *The Use of Atom/AtomPub in Digital Archive Services at The University of Texas at Austin*)

Other

- Member, Open Web Foundaton `http://openwebfoundation.org/`

- Library Technology Blog `http://blogs.law.harvard.edu/pkeane`

- Professional Folk Musician (`http://en.wikipedia.org/wiki/Peter_Keane`)

- Licensed Ham Radio Operator (Advanced Class)

- Twitter: @pkeane

- GitHub: http://github.com/pkeane

references provided upon request

June, 2010