

Luke Franci

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Skills

Programming Languages: Java, Python, PHP, Perl, JavaScript

Java Technologies: WebSphere, Tomcat, Servlets, JSP, JNLP, JDBC, JUnit, JavaCC, Lucene

Development Tools: Ant, CVS, Subversion, Bugzilla, CruiseControl

Databases: IBM Content Manager (CM 7 and CM 8), DB2, MySQL, Oracle, PostgreSQL, Access

User Interface Design: HTML, CSS, Java Swing, paper prototyping

Operating Systems: AIX, Linux, Solaris, FreeBSD, Windows, Mac OS X

Writing: Published technical author, experience with documentation, tutorials, public speaking, training

For portfolio, see: <http://luke.franci.org/portfolio>

Professional Experience

Stellent

October 2003 – Present

Software Engineer

In 2003, Stellent acquired Ancept. Development on Ancept Media Server (AMS) continued.

- Took on more responsibility, including maintenance of the build system.
- Integrated source control log messages with Bugzilla using a Subversion post-commit hook written in Python.
- Streamlined build process using a Python script to generate SQL and XML patch files for the installer.
- Installed CruiseControl continuous integration system for daily builds.
- Implemented Lucene full-text search integration and synchronization with the AMS data store.
- Re-wrote search code using JavaCC parser generator to create search syntax similar to Google's.
- Created AMS build archive with historical tagged builds and automatic links to resolved issues based on Bugzilla milestones.

Ancept

November 2001 – October 2003

Software Engineer

As part of a small team of developers, wrote several important components for Ancept Media Server, a web-based digital asset management system using Java, DB2, and IBM Content Manager.

- Responsible for major portions of asset model and persistence rewrite for Content Manager 8.
- Implemented content ingest "hot folders", reporting system, screens for Swing application, experimented with integrating Lucene full-text search.
- Improved Ant build system to run automated tests, compile JSPs, selectively compile incompatible versions of the code, and run specified test cases.
- Wrote migration program to move data from proprietary bug tracker to Bugzilla with zero data loss, then administrated Bugzilla system.
- Developed product customizations for clients and integrated custom code as generalized product features if possible.
- Provided maintenance coding and support for large deployed systems.

University of Minnesota Libraries**June 1999 – May 2001***Web Programmer*

- Developed a prototype for Digital Library IMAGES (Image Metadata AGregation for Advanced Searching) web application with normalized data model, XML import, multi-criteria search, and display.
- Designed and implemented PHP/MySQL-based content management system for maintaining website content and metadata and controlling access to resources. Sitemap and index automatically generated.
- Wrote and documented PHP libraries and scripts for common functionality like site-wide login, and an email script to allow users to create email forms without server-side programming.

University of Minnesota Libraries**October 1997 – June 1999***Web Developer*

- Maintained the main Libraries website and created custom websites for special projects.
- Created graphics for web UIs using Adobe Photoshop.
- Migrated flat-HTML site to templates using Apache Server Side Includes so the design could be changed more easily.

ACM, University of Minnesota student chapter**June 2000 – May 2001***Vice President*

Elected VP of student chapter of Association for Computer Machinery. Organized technical presentations, handled relations with companies, started successful book drive, and recruited students for nation-wide programming contest. Helped update and teach Introduction to Unix classes to incoming freshmen. Helped redesign ACM website.

North Dakota State University**June 1997 – September 1997***Web Developer*

Created websites for classroom use based on faculty requirements for the NDSU Center for Academic Information Technology.

Projects**LIMO****November 2004 – December 2004**

Joined the pre-existing Lucene Index Monitor (LIMO) Java open source project and added Lucene index file browsing, index search and highlighting, query explanation, and un-stored document reconstruction. Implemented an Ant build script to produce a WAR file for distribution. Apache license.

<http://limo.sourceforge.net/>

Word Unmunger**November 2002 – March 2003**

Word Unmunger is a small Python program which cleans up HTML produced by Microsoft Office products to allow hand editing. MIT license. <http://luke.francl.org/software/word-unmunger/>

Eikon**January – February 2002**

Web-based image content similarity search engine. Uses wavelets to calculate the similarity of images downloaded from the Internet. Eikon is an implementation of the "Fast Multiresolution Image Querying" algorithm using Java 1.4's ImageIO library and servlets. Presented at CodeCon 2002. GPL.

<http://eikon.recursion.org/>

Publications

[Running Individual Test Cases from Ant](#). Java.net, September 12, 2003 (O'Reilly/Sun).

[Eikon Image Search](#). February 16, 2002. Presented at CodeCon 2002 in San Francisco.

Education

Bachelor of Science in Computer Science with a minor in **Mathematics**. University of Minnesota, May 2001.

ArsDigita Boot Camp, an intensive two-week database-backed web application development workshop, January 2001.