

Objective

Write cool code. Solve interesting problems. Pursue my passion for technology.

Skills

- Web Development: HTML, CSS, LAMP, PHP, REST
- Java: The Spring Framework, JSP, JDBC, junit, Maven, Ant, Hibernate, Lucene
- Database Design: SQL, MySQL, Oracle
- Sysadmin: Linux, EC2, bash

Experience

Consultant -- Kenya Pharma (Chemonics), Nairobi, Kenya 10/2010-present

Redesigned and overhauled the kenyapharma.org website, a supply chain management tool and information portal, improving performance, usability, and security. Moved the code from a custom PHP/MySQL application to the Yii Framework to speed up and reduce the complexity of development. Introduced best practices such as source code management, issue tracking, and unit testing. (LAMP, Yii Framework, Java: Apache POI)

Advised on technical issues such as web hosting, data backup/recovery, and mobile applications.

Migrated the production server to an Amazon EC2 server. Set up monitoring and automated database and file backups.

Traveler/Student -- The world 4/2010-present

Traveled to Kenya, Tanzania, and South Africa to visit friends, see my old Peace Corps site, and attend the FIFA World Cup. Refreshed my Swahili language skills. Studied iPhone development, PHP (using the Yii Framework in particular), Drupal, Ruby on Rails, and more.

Senior Software Engineer -- ChaCha Search, Carmel, IN 2/2010-4/2010

Implemented and validated a direct connection to AT&T's SMS using the SMPP protocol, allowing ChaCha to bypass SMS aggregators for AT&T users. (Java, SMPPAPI)

Developed a RESTful web service using Grails to publish Scribe log files, allowing developers to view and search production logs.

Created a web application to display SMS traffic data from the production environment, allowing staff to analyze data and developers to troubleshoot production issues.

Senior Software Engineer / Lead Developer -- Indigo BioSystems, Indianapolis, IN 2/2006-12/2009

Initiated and advocated the use of cloud computing for production and ad hoc needs, such as testing and demos. Used Amazon's Web Services EC2 instances (Linux and Windows images) removing the need for many in-house servers and allowing the organization to take advantage of the high performance, pay-as-you-go pricing model.

Designed and implemented a custom RDF triplestore using a relation database and vertical partitioning, abstracting the SQL statements so that different databases could be used, e.g. MySQL, Oracle, HSQLDB, PostgreSQL. This triplestore served as the foundation for data persistence of Indigo products, freeing developers from the traditional object-relational mapping concerns. (Java, Spring, RDF)

Created a RESTful web service API for Indigo's custom triplestore, translating SPARQL queries into SQL statements which facilitated the publication of linked data.

Designed and implemented Indigo's lab automation framework, a modularized web-based platform that automates the collection and analysis of lab data. (Java, Spring, JSP)



Kimberly D. Coy

Developed ontologies to describe lab data collection and analysis. Translated these ontologies into RDF schema. (RDF, RDFS, N-Triple, OWL)

Conducted interviews using Joel on Software's *Smart and Gets Things Done*, making hiring decisions for new developers and interns.

Refactored a legacy web-app to use the Spring Framework and hibernate, freeing it from technology lock-in and simplifying the development environment, speeding up development and allowing for more diverse deployment environments. (Java, Spring, Hibernate, Tomcat, Glassfish, Sun AppServer 7, SOAP, Lucene, Centera)

Software Engineer / Consultant -- Self-Employed, Indianapolis, IN 2/2005-2/2006
Monitored, maintained, continued development of online application from Quovix. (Java, Linux, MySQL, Bash)

Created and documented business processes such as disaster recovery, business continuity, and standard operating procedures to support an on-line application, enhancing the business' ability to maintain normal operations and consistency of work despite transitioning team members.

Assessed software vendors, making recommendations concerning each vendor's technical and project management skills for an organization seeking to replace a former service provider, allowing management to select a new development partner with confidence and implement a smooth transition to the new vendor.

Software Engineer -- Quovix, Indianapolis, IN 5/2000-2/2005
Developed the Quovix platform, an on-line collaboration application for managing and developing software using remote development teams. Functionality included: issue and milestone tracking, file sharing, discussion forums, and bidding. The platform allowed Quovix to utilize experts from across the world to deliver software products. (Java, Enhydra, MySQL)

Internationalized a large web-application into 7 languages (English, Chinese, Russian, German, Spanish, Japanese, and Korean). Coordinated technical and language requirements between management and translation teams. Configured production servers to handle the new languages and successfully deployed the new localized application, allowing international users to view the site in their local language.

Monitored and maintained a Linux production environment consisting of load balanced web servers and two hot backup databases servers. Installed and configured server applications.

Math Teacher / Volunteer Leader -- Peace Corps, Iringa & Dar es Salaam, Tanzania 9/1996-12/1999
Taught advanced mathematics program for 217 Tanzanian high school students for a two-year period, improving self-esteem, study skills, and cross-cultural understanding.

Led a team of volunteers in the facilitation of in-service and pre-service training programs for Peace Corps Volunteers and their Tanzanian counterparts, increasing the facilitators' presentation skills and strengthening participants' teaching skills.

Education

B.S. Electrical Engineering (Software focus), Purdue University, West Lafayette, IN, 1996

B.S. Equivalent Education/ Training, Peace Corps, Arusha, Tanzania, 1996

B.S. Equivalent Swahili Language/Culture, Peace Corps, Arusha, Tanzania, 1996

LinkedIn Profile: <http://www.linkedin.com/in/kimberlycoy>

Personal Website: <http://mybluetub.com>