

Mai Jasmine Irie

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EDUCATION

University of Pennsylvania, School of Engineering & Applied Science, Philadelphia, PA **GPA: 3.94/4.0**

Master of Computer and Information Technology, May 2009

Relevant Coursework: Internet & Web Systems, Database & Information Systems, Software Engineering, Web Technologies, Web Services, & SOA, Data Structures with Java, Digital System Organization & Design, Programming Techniques with Java (Graduate Level), Introduction to Computer Architecture

University of Pennsylvania, College of General Studies, Philadelphia, PA **GPA: 4.0/4.0**

Non-Degree Post-Baccalaureate Program, September 2006 - May 2007

Relevant Courses: Introduction to Computer Programming, Java (Undergraduate Level)

Yale University, New Haven, CT **GPA: 3.2/4.0**

Bachelor of Arts, May 2004

Major: Graphic Design

PROGRAMMING & DESIGN SKILLS

Languages:	PHP, Javascript, SQL, CSS, HTML, XML, XPath, XQuery, XSLT & related technologies, ActionScript 3.0, Java, C#, VB 6, C
Other Technologies:	JQuery, Yahoo! UI Library, Flex 4, Flex 3, Adobe AIR, Mate Flex Framework, Java Servlets, JSP, Google API, FreePastry, Subversion, Git
CMS/E-Learning:	Drupal 6, Moodle, Sakai, Blackboard, Articulate Presenter 2009/Pro, Perception 4.0
Design/Graphics:	Photoshop CS5, Illustrator CS5, Dreamweaver CS4, Flash CS4/8/MX Professional
Servers/Databases:	Apache Tomcat Server 6.0, MySQL, SQLite, Berkley DB Java Edition
IDEs:	FlashBuilder, Flex Builder 3, Eclipse, Netbeans 6.0, Visual Studio 2005, Visual Basic 6.0

PROFESSIONAL EXPERIENCE

Computer & Network Technologist III. UC Santa Barbara, *Santa Barbara, CA* **2011 – Present**

- Responsible for the development, configuration, and technical maintenance of the library Drupal-based website.
- Work with Web Services Librarians to identify new ways the website can meet the needs of staff and patrons.
- Perform website layout and design to maintain visual uniformity in the library website and its subsites.

Programmer Analyst III. Yale University, *New Haven, CT* **2009 – 2011**

- Responsible for the project coordination and development of a custom e-learning web application that runs on Drupal 6. Development included theming, applying patches, and creating plugins for components like CKEditor.
- Designed and conducted usability tests with user groups to obtain feedback regarding the user interface and interaction design of the application.
- Supervised part-time project staff.

Web Developer/Graphic Designer. Yale University, *New Haven, CT* **2006 – 2009: Remote, Part-Time**

- Developed a userid and password generator program in Java. The application accepted an excel spreadsheet containing user data as input and output an excel spreadsheet containing user data ready for upload to Moodle (an e-learning CMS).
- Created instructional graphics, constructed online tutorials for a medical school course and used my user generator program to register students for access to the material on Moodle.
- Edited a webcast series for a graduate level Neuroscience course.
- Troubleshooted any web-related or technological issues.

Software Developer Intern. Teletronics Technology Corporation, *Newtown, PA* **Summer 2008**

- Developed a Java program to parse text from a batch of Word files into an XML file.
- Added a new feature to an existing software application in C# to display images and other data based on this constructed XML file.
- Implemented improvements and restructured various database-driven forms written in VB.

Project Coordinator. Yale University, *New Haven, CT* **2004 – 2006**

- Co-managed an e-learning project that focused on creating online resources and tests for medical students.
- Created animations, video, audio and other instructional resources for student tutorials.
- Researched and worked with university IT staff to determine an appropriate e-learning platform for the project. Additionally investigated and tested various extensions and plugins for the e-learning software Moodle.

Graphic and Web Designer. Yale University, *New Haven, CT* **2003 – 2004**

- Created instructional graphics and animations for an educational research project.

ACADEMIC PROJECTS

Peer-to-Peer Web Crawler and Search Engine **Spring 2009**

- Developed a scalable web search engine consisting of a distributed web crawler, a distributed indexing system, a HTTP 1.1-compliant Web Server/Java Servlet container, and a search web interface for searching and viewing ranked results.
- The system utilized the FreePastry DHT abstraction to support scalability and load balancing for both the indexer and crawler. The indexing system used term-frequency/inverse document frequency for keyword weighting.
- **Developed using:** Java, Java Servlets, FreePastry, Berkley DB Java Edition

SPAM – System for Penn Active Maps **Fall 2008**

- Member of the Application Development team for the Penn Fitness web application on SPAM
- Developed a Penn-centric Google Maps mashup designed for planning routes, events, and user groups for outdoor recreation. System includes a virtual trip visualizer, route/event/group search, and emailing features.
- **Developed using:** Java (Servlets, JSP), Javascript, YUI, XHTML, CSS, MySQL, Apache Tomcat, Photoshop

What to Make? **Fall 2008**

- Designed and implemented an Adobe AIR application for organizing a collection of cooking recipes. Features include adding, editing, browsing, and searching recipes.
- **Developed using:** Flex 3, AIR, Actionscript 3.0, SQLite

QuakerLinks **Fall 2008**

- Created an online social networking platform that allowed users to establish friendships, and share, comment, and vote on links.
- The system implemented both private (seen only by friends) and public links, comment threading, a dynamically generated RSS feed on activities of friends, a link recommendation system, and a crawler for removing dead links from the database.
- **Developed using:** Java (Servlets & JSP), Javascript, XML, XHTML, CSS, MySQL, Apache Tomcat