

# Adam Mathes

amathes@cs.stanford.edu  
http://www.adammathes.com

## Objective

Change the world, possibly using computers. Specifically, to obtain an information architecture or software design position that involves the organization, persistence and accessibility of information.

## Education

**University of Illinois at Urbana-Champaign**  
**MS in Library and Information Science, 2005**

**Stanford University**  
**BS in Computer Science, 2002**

## Experience

### **Graduate Assistant**

*Graduate School of Library and Information Science, University of Illinois - Urbana, IL*  
August 2004–May 2005

Assisted with graduate level courses in electronic publishing and document modeling. Created programs to assess DTDs and XML documents. Conducted tutorial sessions on creation and editing of XML documents and DTDs using Emacs on Linux. Enhanced schema documentation toolkit.

### **Web Architect**

*Linn-Mathes Inc. - Chicago, IL*  
August 2003–December 2003

Designed and implemented corporate web site. Collaborated with management team in the development of goals and information architecture. Designed and implemented a database of projects, clients, and media assets. Produced a publishing and content management system for both HTML and PDF output.

### **Intranet Developer**

*KnowNow - Mountain View, CA*  
June 2001–August 2001

Independent contractor that designed, implemented, and deployed company-wide intranet, knowledge and content management systems. Customized and adapted a content management system I wrote and had previously licensed to the company. Integrated KnowNow's technology into the system to enable streaming updates to any web browser in real time. Practical experience guiding a project from design to deployment.

### **Senior Production Engineer**

*deeleap - Austin, TX*  
June 2000–August 2000

Worked in a small startup environment on the development of a critically acclaimed web browser assistant. Assessed and integrated new technologies into the web-based application including XSLT for better separation of content from presentation, as well as XML for output and syndication. Developed and extended existing perl codebase; optimized code and database. Contributed to overall software architecture and product design.

### **Systems Administrator**

*Department of Anthropological Sciences - Stanford, CA*  
March 1999–June 1999

Deployed and administrated a small Linux computer lab for software development and genetic research.

**Intern**

*ingenious multimedia inc.* - Chicago, IL  
June 1998–August 1998

Designed and implemented web applications using HTML, SQL, VBScript, JavaScript, Microsoft Active Server Pages.

## Technical Skills

**Document Modeling:** including the design and implementation of SGML/XML DTDs, and Relax NG schemas.

**Electronic Publishing and Content Management:** development and design of work-flow, text transformations, CMS for personal publishing and corporate intranets.

**Information Architecture:** strong background in library and information science foundations that apply to the organization and management of information, including metadata standards, classification schemes, knowledge representation, ontologies.

**Web Applications:** extensive experience designing and developing web-based database backed applications on Unix systems using Apache, mod\_perl, and MySQL.

**W3C Standards:** knowledge of and practical ability to select and deploy technologies like XML, XSLT, XSL-FO, RDF, and others as they emerge.

**Programming:** Perl, Python, Java, C, C++, Lisp, and Pascal.

**Databases:** Understanding of SQL and database design, developing entity-relationship diagrams and specifications.

**System Administration:** basic system administration tasks in Unix and Windows environments.

**Desktop Publishing:** experience producing paper publications using Adobe Pagemaker and Indesign for page layout and Photoshop for digital image manipulation and enhancement.

**Web Design:** competence producing standards-compliant, clean, HTML and XHTML pages that leverage CSS for design.

**Other Technologies:** additional experience working with RSS, Flash Actionscript, XML-RPC, SOAP.