

Hugh A. Cayless

Digital Librarian / Digital Classicist

CDLA
Wilson Library
CB #3990
Chapel Hill, NC
27514
919-260-6103
philomousos@gmail.com

Employment

Head, Research and Development Group, Carolina Digital Library and Archives, UNC Chapel Hill – 2007-present

Lead a team that provides research and development support and consultation for the Carolina Digital Library and Archives, a department of the University Library. Responsible for design of architectures for the Institutional Repository and the Digital Library platform. Programming with Java, PHP, Python, XSLT, XQuery, and Ruby.

Senior Software Engineer, Lulu; Morrisville, NC – 2004-2007

Developed on demand publishing tools and services. Database development with PostgreSQL, Object Oriented Design and programming with Ruby on Rails, PHP 4 + 5, Java, and C++ on Linux and OS X. Technologies and methodologies I'm experienced in include XML, XSLT, XSLFO, PDF manipulation, Web Services (SOAP and REST), search engine development with Lucene, SQL, shell scripting, (X)HTML, CSS, Javascript, AJAX, Unicode, Linux system administration, unit testing, source control with Subversion and Perforce, Agile development.

Application Analyst Programmer II; UNC Chapel Hill, Chapel Hill, NC – 2000-2004

Developed web-based applications for the College of Arts and Sciences. Continued management and development of UNC E-Media Cooperative Project (formerly Digital Library Services). Consulted with faculty and other units on the implementation of new technologies. Database development using Oracle. Web development using Java, servlets, Cocoon, XML / XSLT / XSL:FO, ColdFusion, Visual Basic, HTML, and JavaScript. Supervised contract programmers.

Project Manager, UNC Digital Library Project; UNC Chapel Hill – 1999-2000

Managed project to study the feasibility of developing a digital library at UNC Chapel Hill. Database development using Oracle 8. Web development using ASP, XML / XSL, HTML and JavaScript. Produced technical reports and presentations.

Academic Service and Employment

Adjunct Professor; School of Information and Library Science, UNC Chapel Hill
Chair, ASIS&T Carolinas Chapter, 2007-2008

Memberships:

ACM, ALLC/ACH, TEI Consortium, ASIS&T

Projects:

Consultant on Mellon-funded Integrating Digital Papyrology project (2007 - present).
Founding member of the EpiDoc Consortium (<http://epidoc.sf.net>).

Education

School of Information and Library Science, UNC Chapel Hill, NC — MSIS, 2005
UNC Chapel Hill, NC — Ph.D, Classics, 1999
UNC Chapel Hill, NC — MA, Latin, 1994
Cornell University, Ithaca, NY — BA, Classics and History, 1991

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Selected Papers and Presentations

- "EPAPP/EpiDoc on the Ground; The EpiDocinator" First International EpiDoc Workshop, UNC Chapel Hill, 2002.
- "Semantic Markup and Epigraphy" Panel, Second International EpiDoc Workshop, Kings College, London, 2002.
- "Using Cocoon in Humanities Digital Libraries" Invited Presentation, Center for Computational Sciences, University of Kentucky, 2003.
- "Tools for Digital Epigraphy" Poster, Association for Computing in the Humanities / Association for Literary and Linguistic Computing, Athens GA, 2003.
- "Directory Services for Classical Informatics," *Classics@* issue 2, Harvard Center for Hellenic Studies, March 2004.
- "Toward the Next Generation of Scholarly Online Publication," Invited Speaker, Digital Publication: the example of Aphrodisias, New York University, 2004.
- "DocScapes: Visualizing Document Structures with SVG," ACH/ALLC annual meeting, Victoria, BC, 2005.
- "The Next Million: Open Source Book Creation with CourseForge," poster/demo, Chicago Colloquium on Digital Humanities and Computer Science, University of Chicago, 2006.
- "The Colonial and State Records of North Carolina," Chicago Colloquium on Digital Humanities and Computer Science, 2007.
- "Linking Page Images to Transcriptions with SVG." Presented at Balisage: The Markup Conference, 12 - 15 August 2008. In *Proceedings of Balisage: The Markup Conference (2008)*.
- "Epigraphy in 2017," *Digital Humanities Quarterly* (forthcoming 2008).
- "Ktêma es aiei: Digital Permanence from an Ancient Perspective," *Digital Research in the Study of Classical Antiquity*, Gabriel Bodard and Simon Mahony, edd., (forthcoming 2009).

Skills and Experience

Lots of experience in software architecture, information retrieval systems, metadata schema development.

Various programming languages, most recently Python, Java,, PHP, Javascript, and Ruby. Also C++, Visual Basic, bash, etc.

Lots of hard XML experience, including converting corpora from SGML and processing large XML corpora, development using XML databases (eXist), and defining new XML schemas; XML, XSLT 1.0 & 2.0, XQuery, XML Schema, RelaxNG, Schematron, DTD.

Reading knowledge of Latin, Ancient Greek, Italian, French, and German.

Database development with PostgreSQL, MySQL, Oracle, etc.