

Hugh Cayless

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PROFILE

I have over 15 years of experience combining independent scholarship in Digital Humanities and Information Science with work as a software architect, engineer and project manager.

EXPERIENCE

Senior Digital Humanities Developer, Duke University July 2013 present

Provide architecture, design, and programming support for the Duke Collaboratory for Classics Computing (DC3).

Digital Library Analyst/Programmer, New York University Feb 2009 June 2013

Responsible for architecture and development on the Mellon-funded Integrating Digital Papyrology project and the NEH-funded APIS 6 project, hosted at <http://papyri.info>.

Head, Research and Development Group, Carolina Digital Library and Archives, UNC Chapel Hill 2007-2009

Recruited and led a team to provide research and development support and consultation for the Carolina Digital Library and Archives, a department of the University Library. Programming in PHP, Python, Ruby, using MySQL and XML.

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

Developed on demand publishing tools and services. Responsible for re-architecting search, publishing wizards, and content versioning, etc. Programming in PHP, Java, Ruby, and C++.

Academic Applications Developer; UNC Chapel Hill, Chapel Hill, NC 2000-2004

Developed web-based applications for the College of Arts and Sciences. Consulted with faculty and other units on the implementation of new technologies. Supervised contract programmers.

ACADEMIC SERVICE AND EMPLOYMENT

Adjunct Professor; School of Information and Library Science, UNC Chapel Hill

Chair, ASIS&T Carolinas Chapter, 2007-2008

TEI Technical Council Member, 2012-present

TEI Technical Council Chair, 2015

Projects:

Co-PI on *IMG2XML*, NEH Startup Grant project to explore text-image linking for manuscripts (<http://docsouth.unc.edu/dusenbery/technology/>).

Consultant on Mellon-funded Integrating Digital Papyrology project (2007 - 2009).

Founding member of the EpiDoc Collaborative (<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

SKILLS AND EXPERIENCE

Experience in software architecture, information retrieval systems, metadata schema development. Relational database development with PostgreSQL, MySQL, Oracle, etc.; RDF triple store development with Jena. Graph database development with Neo4J Search engine development with Lucene and Solr.

17 years of programming experience in various programming languages, most recently Clojure, Java, Ruby, Python, Javascript, and PHP. Also C++, Visual Basic, bash, etc.

Over 15 years of XML experience, including converting corpora from SGML to XML and processing large XML corpora, development using XML databases (eXist), and defining new XML schemas; XSLT 1.0 & 2.0, XQuery, XML Schema, RelaxNG, Schematron, DTD. Experience with TEI, METS, MODS, Dublin Core, RDF, EAD.

SELECTED PAPERS AND PRESENTATIONS

- “Directory Services for Classical Informatics,” *Classics@* issue 2, Harvard Center for Hellenic Studies, March 2004.
- “DocScapes: Visualizing Document Structures with SVG,” ACH/ALLC annual meeting, Victoria, BC, 2005.
- “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* (Winter 2008).
- “Linking Text and Image with SVG,” *Kodikologie und Paläographie im digitalen Zeitalter - Codicology and Palaeography in the Digital Age*, Malte Rehbein, Patrick Sahle, and Torsten Schaßan ed., (2009).
- "Digitized Manuscripts and Open Licensing," Digital Proceedings of the Lawrence J. Schoenberg Symposium on Manuscript Studies in the Digital Age: Vol. 2: Issue. 1, Article 7 (2010). <http://repository.upenn.edu/ljsproceedings/vol2/iss1/7/>
- “Ktêma es aiei: Digital Permanence from an Ancient Perspective,” *Digital Research in the Study of Classical Antiquity*, Gabriel Bodard and Simon Mahony, ed., (2010).
- “On Implementing string-range() for TEI,” Presented at Balisage: The Markup Conference 2010, Montréal, Canada, August 3 - 6, 2010. In Proceedings of Balisage: The Markup Conference 2010. Balisage Series on Markup Technologies, vol. 5 (2010). doi:10.4242/BalisageVol5.Cayless01.
- “Building Digital Classics,” in *#Alt-academy*, a *MediaCommons* project, Bethany Nowvisike ed. (2011). <http://mediacommons.futureofthebook.org/alt-ac/>
- “The Papyrological Navigator: Project Integration with RDF,” Presented at Digital Humanities 2011, Stanford, CA, July 19 - 22, 2011.
- “Papyri.info’s Linked Data Story,” presented at the Linked Ancient World Data Institute, NYU, May 31 - June 2, 2012. <http://goo.gl/8gIbG>
- “Rebooting TEI Pointers,” presented at the Annual Meeting of the Text Encoding Initiative, Texas A&M, November 8 - 10, 2012. <http://goo.gl/4R5zo>
- “Rebooting TEI Pointers,” *Journal of the Text Encoding Initiative*, Issue 6, 2013.