Ed Summers
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I am a software developer and data scientist with over two decades of experience designing, developing, maintaining and analyzing information infrastructures. I work best at the boundaries between the disciplines, and specialize in the application of both qualitative and quantitative methods to accelerate the work of research teams who work with the web as data.

Experience

Research Faculty
Maryland Institute for Technology in the Humanities
August 2014 - Present

- Social media data collection, analysis and preservation
- Digital humanities research and development
- Web and cloud based infrastructure development and sustainability
- Technical lead for Documenting the Now and Unlocking the Airwaves projects
- Teaching in archival studies, digital curation, web and software development

Information Technology Specialist
Library of Congress
March 2006 – August 2014

- Digital preservation and repository software design and development
- Lead Software Developer on the National Digital Newspaper Project
- Social Media Archiving (Twitter)
- Design and implementation of the Library of Congress Linked Data Service
- Standards work in the World Wide Web Consortium: SKOS, RDFa, eGov

Senior Software Engineer
Follett Corporation
May 2002 – March 2006

- Ebook publishing and distribution
- Web Service design and implementation
- Book metadata harvesting and analysis
- Requirements gathering and project planning

Senior Software Engineer
Cheetahmail
December 1999 - May 2002

- Design and implementation of data ingest applications
- Data analytics and reporting infrastructure
- Creation and development of web service APIs (REST)
- Networking and systems administration (Linux)
- Technical sales representative

Electronic Resources Librarian
Old Dominion University
April 1998 - December 1999

- SGML data processing for electronic texts for the VIVA consortium
- Created a program for alerting students and faculty about new research publications in their field of interest.
- Created a publishing system for archival finding aids (EAD XML)
- Bibliographic data processing

Visiting Assistant Professor
University of Illinois Urbana-Champaign
August 1996 - April 1998

- Web database development (ASP SQL Server)
- Managed the preservation of 19th century criminology pamphlet collection
- Collection development in the social sciences
- Managed references services in the Social Science Library

Selected Publications

Summers, E. (2020). Legibility Machines: Archival Appraisal and the Genealogies of Use. *PhD Dissertation.* University of Maryland. https://drum.lib.umd.edu/handle/1903/26731

Summers, E. (2020). Appraisal Talk in Web Archives. *Archivaria*, 89(Spring), 70-102. https://archivaria.ca/index.php/archivaria/article/view/13733

Summers, E. and Wickner, A. (2019). Archival Circulation on the Web: The Vine-Tweets Dataset. *Cultural Analytics.* Retrieved from https://culturalanalytics.org/article/11048

Proferes, N. and Summers, E. (2019). Algorithms and Agenda Setting in Wikileaks' #PodestaEmails Release. *Information, Communication & Society*, 22(11), 1630-1645. https://doi.org/10.1080/1369118X.2019.1626469

Summers, E. (2018). Appraisal Practices in Web Archives. *SocArXiv Papers.* Retrieved from https://osf.io/preprints/socarxiv/75mjp/

Summers, E. and Punzalan, R. (2017). Bots, Seeds and People: Web Archives as Infrastructure. *Proceedings of the 2017 ACM Conference on Computer Supported Cooperative Work and Social Computing, CSCW 17.* https://doi.org/10.1145/2998181.2998345

Brown, M., Ray, R., Summers, E. and Fraistat N. (2016). #SayHerName: a case study of intersectional social media activism. *Ethnic and Racial Studies*, 40(11), 1831-1846. https://doi.org/10.1080/01419870.2017.1334934

Steiner, T., van Hooland, S. and Summers, E. (2013). MJ no more: Using Concurrent Wikipedia Edit Spikes with Social Network Plausibility Checks for Breaking News Detection. *International World Wide Web Conference.* https://arxiv.org/abs/1303.4702

Baker, T., Bechhofer, S., Isaac, A., Miles, A. Schreiber, G. and Summers, E. (2013). Key Choices in the Design of Simple Knowledge Organization System (SKOS). *Journal of Web Semantics*, 20, 35-49. https://doi.org/10.1016/j.websem.2013.05.001

Isaac, I. and Summers, E. (2008). Simple Knowledge Organization System Primer. *W3C Working Group Note*, Retrieved from http://www.w3.org/TR/skos-primer/

Summers, E., Issac, A., Redding, C. and Krech, D. (2008). LCSH, SKOS and Linked Data. *Proceedings of the International Conference on Dublin Core and Metadata Applications.* https://dcpapers.dublincore.org/pubs/article/viewFile/916/912

Education

Ph.D Information Studies
University of Maryland
2015 - 2020

My dissertation project focused on appraisal practices in web archives and included a 16 month field study in the National Software Reference Library at the National Institute for Standards and Technology.

M.S. Library and Information Studies
Rutgers University
1995 - 1996

My studies focused on the use of the emerging Web to deploy metadata standards and services.

B.A. English
Rutgers University
1987 - 1991

In my senior seminars I focused on the study of the African American experience through the works of James Baldwin. I minored in Computer Science where I focused on object oriented programming languages.

References available upon request.