# Wendy Liu

ilostwaldo@gmail.com http://dellsystem.me London, UK

### Education

2010–2014 McGill University
 Bachelor of Science in Math and Computer Science

 2008-2010 International School of Beijing
 International Baccalaureate certificate in 4 higher level and 2 standard level courses

## Programming skills

Web | HTML, CSS, LESS, Javascript, jQuery, AngularJS, Django, PHP, Node.js

Software git, vim, LATEX, nginx

Other Python, Java, C, SQL, Ruby, Bash

General I'm most comfortable with \*NIX environments, and have experience with managing database systems (PostgreSQL, MongoDB, Riak) as well as with Amazon Web Services.

I enjoy designing interfaces, building applications, and solving challenging problems.

# Professional experience

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2014-present	Co-founder and CTO at Macromeasures  • Primary architect of a robust system for large-scale social data analysis	
2013	<ul> <li>Software Engineering Intern at Google San Francisco</li> <li>Primary UI developer on capacity planning team</li> <li>Launched table and plotting widgets and improved UI for internal data visualisation tool</li> </ul>	
2012	<ul> <li>Web developer for Agora Octave, an official code-sharing site for GNU Octave</li> <li>Designed graphics and implemented layouts for a modern redesign of the site</li> <li>Worked with existing Django codebase to implement features such as syntax highlighting, file uploading/browsing, and archive extraction via an asynchronous task queue</li> <li>Selected by GNU Octave to work on Agora as one of two participants in the European Space Agency's "Summer of Code In Space" 2012</li> </ul>	
2011–2014	Researcher for Professor Derek Ruths' Network Dynamics lab at McGill University  • Developed a large-scale system for analysing Twitter data to infer demographic statistics  • Implemented a modular and extensible framework using python for data analysis  • Co-authored several papers in peer-reviewed journals and conferences (see publications)	
2011–2012	Web developer for Professor Ichiro Fujinaga's DDMAL lab at McGill University  • Developed Diva.js, a Javascript-based document viewer for efficiently viewing high-resolution document images (http://ddmal.music.mcgill.ca/diva)	

• Worked on interface and system design and programming for various projects within the

lab, using PHP, Python (Django, Tornado), and Javascript (jQuery, Objective-J)

### Volunteer activities

2013-2014	<ul> <li>Web developer for Cité Libre, the revival of a political publication first founded in 1950</li> <li>Built custom platform for publishing articles with multilingual support</li> </ul>
2010-2014	<ul> <li>Lead developer for Wikinotes.ca, a free note-sharing website for McGill students</li> <li>Designed and led development of wiki-like platform (built with Django)</li> <li>Contributed course notes (using Markdown and TeX for math) and moderated content</li> </ul>
2011–2014	<ul> <li>Undersecretary-General—IT for McGill Model United Nations 2013 and 2014</li> <li>Part of organising committee for yearly conference consisting of 1400 delegates from universities worldwide and 500 student staff from McGill University</li> <li>Designed and developed public-facing website (http://www.mcmun.org), with an easy-to-use system for managing registration, invoices, and other aspects of the conference</li> </ul>
2007-2014	<ul> <li>Moderator and website team member for phpBB (forum software, GPLv2)</li> <li>Graphic design and maintenance for the phpBB website (since 2011)</li> <li>Provided support through the support forums and the IRC channel</li> <li>Moderated the board by handling reports, enforcing rules, assisting users</li> </ul>
2011–2013	<ul> <li>Server administrator for McGill University's Computer Task Force</li> <li>Designed and built the group's public-facing website (http://taskforce.sus.mcgill.ca)</li> <li>Assisted with computer deployment and imaging, as well as user-facing IT issues</li> </ul>
2011–2011	<ul> <li>Undersecretary-General—IT for Secondary Schools United Nations Symposium 2011</li> <li>Directed the setup and maintenance of various IT equipment during the conference</li> <li>Designed and developed public-facing website, with integrated registration, invoicing, discussion forums, and management for other aspects of the conference (1100 attendees)</li> </ul>

## Programming portfolio

I contribute code to existing open source projects as well as personal projects, usually under a free license. Most of my code is available online at http://github.com/dellsystem

## **Publications**

2013	Liu W, Ruths D. What's in a name? Using first names as features for gender inference in
	Twitter. AAAI 2013 Spring Symposium on Analyzing Microtext. Stanford, CA.

- Hankinson A, Burgoyne J.A., Vigliensoni G, Porter A, Thompson J, **Liu W**, Chiu R, Fujinaga I. (2012). Digital document image retrieval using optical music recognition. *Proc.* of the 13th Intl. Society for Music Information Retrieval Conference. Porto, Portugal.
- Hankinson A, Liu W, Pugin L, Fujinaga I. (2012). Diva: A Web-Based High-Resolution
   Digital Document Viewer. Proceedings of the Conference on Theory and Practice in Digital
   Libraries. Paphos, Cyprus. P. Zaphiris, G. Buchanan, E. Rasmussen, F. Loizides, eds.,
   Lecture Notes in Computer Science 7489, Heidelberg: Springer. 45560.
- 2012 Al Zamal F, **Liu W**, Ruths D. Homophily and Latent Attribute Inference: Inferring Latent Attributes of Twitter Users from Neighbors. *International AAAI Conference on Weblogs and Social Media*. Poster paper. 2012-05-20.
- 2012 Liu W, Al Zamal F, Ruths D. Using Social Media to Infer Gender Composition of Commuter Populations. *International AAAI Conference on Weblogs and Social Media*. Workshop paper. 2012-05-20.
- Hankinson A, **Liu W**, Pugin L, Fujinaga I. Diva.js: A Continuous Document Viewing Interface. *Code4lib Journal*. Issue 14, 2011-07-25.