

TAVISH ARMSTRONG

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tavisharmstrong.com

github.com/tarmstrong

EDUCATION

B. Eng., Software Engineering

Expected April 2014

Concordia University, Montreal, QC

Member of the Institute for Co-operative Education

GPA 3.4

EXPERIENCE

Undergraduate Researcher

May 2013 – August 2013

Concordia University, Montreal, QC

- Scripted scrapers for Rietveld, Google Code, and git.
- Built statistical models for bug prediction using code review data.
- Advised a Master's student on design of a distributed code review system.
- Work funded by the NSERC Undergraduate Student Research Award.

Web Developer

May 2011 – August 2012

Evolving Web, Montreal, QC

- Developed and open sourced Drupal (PHP) and Redmine (Ruby) modules.
- Helped design and manage projects for McGill University and the Government of Canada.
- Administered servers with Chef.
- Presented at and attended Drupal conferences in London (UK), Cambridge (USA), New York, Montreal, Toronto. Wrote for corporate blog.
- Co-presented Drupal developer training.

SKILLS

- *PLs (experienced with)* PHP, Python, JavaScript, Java, PostgreSQL, MySQL
- *PLs (familiar with)* Ruby, C/C++, Haskell, R
- *operating systems* Linux
- *frameworks/libraries* Drupal, Chef, jQuery, pandas
- *tools* vim, git, GitHub, IPython Notebook, Travis-CI, bash, ssh, tmux, Eclipse, Redmine, nosetests

PROJECTS AND PUBLICATIONS

- “The Performance of Open Source Applications”. Editor. 6 October 2013. Solicited chapters from open source maintainers. Performed technical and structural reviews of chapters. Organized volunteer reviewers and copyeditors. Available at aosabook.org.
- Browsercast (<http://github.com/tarmstrong/bcast-experiments>). Author. 2014–ongoing. A tool for editing and playing web-native narrated slideshows.
- NBDiff (<http://github.com/tarmstrong/nbdiff>). Team Leader. 2013–ongoing (final-year Capstone project). A graphical, web-based diffing-and-merging tool for IPython Notebook files.
- git2json (<http://github.com/tarmstrong/git2json>). Author. 2013. A command-line utility for converting git logs to JSON for use with data analysis tools.
- gitcoach (<http://github.com/mhoye/gitcoach>). Maintainer. 2013. A command-line utility for determining which files are usually committed together and providing recommendations based on currently modified files.
- pyadbc (<http://github.com/tarmstrong/pyadbc>). Author. 2013. A Python library for implementing design by contract using method and class decorators.