RONUK RAVAL

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Skills

- Proficient with C, C++, Haskell, Java, Javascript, PHP, Python, Scheme, and Shell scripting, as well as several documentation and testing suites respective to those languages.

- Familiar with classical relational databases and MapReduce concepts, particularly MySQL, Oracle, and Hadoop and Hive implementations.

- Skilled with Linux, Bash and zsh shells, and the UNIX toolchain.

- Working knowledge of several build systems and development environments, including handwritten makefiles, the autotools suite, as well as Eclipse, Qt Creator, and vim.

- Well versed in the use of several revision control systems from the command line, namely Git, Subversion, Bazaar, and Darcs, with passing familiarity with RCS and CVS.

- Knowledgable about computer hardware and logic level design and abstraction.

Work Experience

- **Facebook: Software Engineer Intern, Location Team**   *Menlo Park, CA (January – April, 2012)*
  Designed and built the ability to checkin to a location to "Facebook for Every Phone": the Facebook app for feature phones, that is, non-Android, non-iPhone, and non-Blackberry.

- **Facebook: Software Engineer Intern, Insights Team**   *Palo Alto, CA (April – August, 2011)*
  Responsible for writing a completely new feature for application statistics, from Hive based MapReduce jobs to an extremely dynamic Javascript user interface using HTML5 canvas and Google's ExCanvas.

- **Bloomberg LP: Financial Software Developer Intern**   *New York, NY (September – December, 2010)*
  Developed a user interface and backend to support arbitrarily complex constraints for an internal search engine.

Open Source Activities

Links to respective source repositories can be found at the bottom of this page.

- Currently implementing an optimizing compiler in Haskell [`wlcc`].

- Partially completed a note storing system in Python [`jockey`].

- Contributed a command line interface to the wicd network manager for Linux [`wicd`].

- Wrote a Python interface to the XTest extension of the X server [`xtest`].

Education

- **University of Waterloo**   *Waterloo, ON (September 2009 – present)*
  Candidate for Bachelor of Computer Science
  Honours Computer Science with Digital Hardware Option, Co-op Program

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[wlcc]:    https://github.com/rraval/wlcc
[jockey]:  http://gitorious.org/jockey
[wicd]:    http://launchpad.net/wicd
[xtest]:   http://code.launchpad.net/~ronuk-raval/+junk/xtest
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