Ryan Carlson

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Address · 814 S Negley Ave · Pittsburgh, PA 15232

Education

Carnegie Mellon University, Pittsburgh, PA (2011 - present)
PhD student at the Language Technologies Institute and the Program for Interdisciplinary Education Research (PIER). GPA: 3.85.

Swarthmore College, Swarthmore, PA (2007 - 2011)
Graduated with Honors. Major in Computer Science, Minor in Cognitive Science. Total GPA: 3.69, Major GPA: 3.92.

Publications

R. Carlson, K. Genin, M. Rau, and R. Scheines. Student Profiling from Tutoring System Log Data: When do Multiple Graphical Representations Matter? In Proc. Educational Data Mining, July 2013.

I. Goldin and **R. Carlson**. Learner Differences and Hint Content. In Proc. Artificial Intelligence in Education, July 2013.

R. Carlson, V. Keiser, N. Matsuda, K. R. Koedinger, C. P. Rosé. Building a Conversational SimStudent. In Proc. Intelligent Tutoring Systems, pages 563-569, June 2012 (Short Paper).

A. Ogan, S. Finkelstein, E. Walker, **R. Carlson**, and J. Cassell. Rudeness and Rapport: Insults and Learning Gains in Peer Tutoring. In Proc. Intelligent Tutoring Systems, pages 11-21, June 2012.

A. Stromme, **R. Carlson**, and T. Newhall. Chestnut: A GPU Programming Language for Non-Experts. In Proc. ACM Workshop on Programming Models and Applications for Multicores and Manycores, pages 156-167, Feb 2012.

R. Carlson and A. Danner. Bridge detection in grid terrains and improved drainage enforcement. In Proc. ACM Symposium on Advances in Geographic Information Systems, pages 250–260, Nov 2010.

Awards

- Full scholarship for Pittsburgh Science of Learning Center Summer School, July 2011.
- NSF Travel Grant for ACM SIGSPATIAL GIS Conference, November 2010.
- Sigma Xi member, Fall 2009 – present

Work Experience

Software Engineering Intern, Google Maps, Android, *Google*, Mountain View, CA (May. 2013 – present)

- Created framework to enhance benchmark reliability by making tests network-independent.
- Added "More Info" section to Places page to offer user additional information.

Software Engineer, *Safaba Translation Solutions*, Pittsburgh, PA (Nov. 2011 – present)

- Built machine translation systems customized to client demands.
- Analyzed translation quality and generated fixes to improve our engines.

- Developed SSL-encrypted translation server used by our clients.

Lead Mobile Developer, *Ludo Mechanica*, Pittsburgh, PA (Aug. 2012 – present)

- Developed DropKicker, an Android app to help users change their habits (currently in limited beta release).
- Worked with a small team to design the app specifications and visual direction.

Web Administrator, *Swarthmore College Admissions*, Swarthmore, PA (2009 – 2011)

- Created and maintained Admissions pages (i.e. blogs, college fairs, web ambassadors).
- Set up and monitored Facebook page for admitted students.

Teaching Assistant, *Swarthmore College Computer Science Department*, Swarthmore, PA (2009 – 2011)

- Ran weekly student sessions to help with homework.
- Provided assistance in class and lab.
- Introduced and supervised labs in professor's absence.

Skills

Computer Languages: Python, Java, C, C++, Objective-C, Lisp (CL/Scheme), PostegreSQL, Bash, HTML, CSS.
Mobile Development: Android, iOS.
Operating Systems: Linux, Mac OS X, Windows.