

Russell Leonard Melick

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EDUCATION

Bachelor of Science, Computer Science
Harvey Mudd College, Claremont, CA, expected May 2011
Humanities Concentration: German

COMPUTER SKILLS

Languages & Software: Java, Python

EXPERIENCE

Senior Software Engineer 2011 - Present
LinkedIn, Mountain View, CA
• Redesigned the LinkedIn Today email
• Migrated significant infrastructure to Hadoop for scalability
• Helped design and implement next generation email development and distribution platform, with a focus on member experience and developer productivity.

Clinic Team Leader / Hive Developer 2010 - 2011
Facebook / Harvey Mudd College, Claremont, CA
• Collaborated with Facebook on Hive, a data warehouse system built on Hadoop
• Enhanced indexing support for Hive queries, including automatic indexing and bitmap indexes
• During the spring semester, led the team of students

Software Engineer Intern Summer 2010
LinkedIn, Mountain View, CA
• Developed feature to share content with email addresses
• Dealt with abuse and spam concerns for feature

Researcher Summer 2009
UCLA Applied Mathematics REU, Los Angeles, CA
• Group was exploring open problems in atmospheric science
• Implemented and evaluated several numerical PDE solvers
• Worked towards expanding past research to three dimensions

ACTIVITIES

Project Manager Nov. 2008–Present
Mudd Software Development Club
• Club created to serve large scale software needs of other campus groups
• Working on creating an online voting system for student elections
• Designed to expose students to real world software methodologies

Team Leader Feb. 2009
MCM Modeling Competition
• Four day team competition creating mathematical models of real world systems
• Developed traffic circle simulator in Matlab and produced paper describing methodology, limitations, and results
• Paper was ranked top four among 1100 international submissions
• Presented results at MathFest 2009 and were published in UMAP Journal

PUBLICATIONS

“One Ring to Rule Them All: The Optimization of Traffic Circles”, with Aaron Abromowitz and Andrea Levy, *The UMAP Journal*, 30.3, 2009, pp. 247 – 260.

LEADERSHIP

<i>ACM Officer</i> , Claremont College ACM Student Chapter	2009–11
<i>Proctor, Dorm President, Dorm Treasurer</i> , Case Dorm, Harvey Mudd College	2008–11
<i>Group Leader and Participant</i> , Project Noah, New Orleans, LA	Summers 2006–08
• Summer church mission trip to LA to help Hurricane Katrina recovery	