

Austin Reilley Benson

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Objective

- Software engineering or computational science research-focused internship for summer 2013.

Research Interests

- Data mining; network analysis; large-scale data analysis and matrix computations
- Parallel and high-performance computing; distributed computing; parallel algorithms

Education

- Stanford University
 - Ph.D. Computational and Mathematical Engineering Expected June 2017
 - M.S. Computational and Mathematical Engineering Expected June 2014
- University of California, Berkeley
 - B.S. Electrical Engineering and Computer Sciences May 2012
 - B.A. Applied Mathematics (algorithms emphasis) May 2012

Honors and Awards

- Stanford Graduate Fellowship, 2012-2015
- Phi Beta Kappa, 2012
- Eta Kappa Nu, 2011
- Tau Beta Pi, 2010

Research and Work Experience

- **Google, Inc.** May 2012-August 2012
Software Engineering Intern
 - Developed novel sandboxing techniques for Google Chrome's Native Client to boost performance
- **Google, Inc.** May 2011-August 2011
Software Engineering Intern
 - Implemented a pluggable user-space file system for Google Chrome's Native Client
- **University of California, Berkeley** February 2011-May 2012
Undergraduate Researcher, Computer Sciences Division
Advisor: Professor James Demmel
 - Researched parallel algorithms for numerical linear algebra in MapReduce architectures
- **Domestic Nuclear Threat Security Initiative** June 2010-June 2012
Undergraduate Researcher and Lead Software Engineer
 - Developed a parallel software framework for real-time nuclear detection
 - Led open source efforts: software available at <https://github.com/bearing/grif>

Skills

- Languages: C/C++ · Java · Python · Matlab · bash · x86
- Computing Tools: Apache Hadoop · Google App Engine · Qt · Git · Mercurial
- Operating Systems: OS X · Linux