Austin Reilley Benson

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Berkeley, CA

Research Interests

- Parallel and high-performance computing with scientific applications
- Numerical linear algebra and large-scale matrix computations with data mining applications

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. Computer Science and Engineering — May 2012
    - B.A. Applied Mathematics (algorithms emphasis) — May 2012

Honors and Awards

- Stanford Graduate Fellowship, 2012
- 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, Google Chrome Team
    - New validator and compiler tools for the Native Client sandbox

- **Google, Inc.** — May 2011-August 2011
  Software Engineering Intern, Google Chrome Team
    - Implemented nacl-mounts library, a pluggable user-space file system for Chrome's Native Client

- **University of California, Berkeley** — February 2011-May 2012
  Undergraduate Researcher
  Advisor: Professor James Demmel
    - Researching parallel algorithms for numerical linear algebra in cloud computing environments

- **Domestic Nuclear Threat Security Initiative** — June 2010-Present
  Undergraduate Researcher and Software Engineer
    - Developing a parallel software framework for real-time nuclear detection

Skills

- Languages: (Proficient) C, C++, Java, Python, Matlab, bash; (Experience) Perl, JavaScript
- Misc. Computing Tools: Apache Hadoop, Google App Engine, Qt, LaTeX , CUDA, OpenMP, MPI, git, svn
- Operating Systems: OS X, Linux