Jason Petsod

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EDUCATION

Illinois Institute of Technology; Chicago, IL — August 2006 – May 2010
B.S., Physics, cum laude; GPA: 3.51/4.00.

PROFESSIONAL

Google Inc.; New York, NY
Site Reliability Engineer — September 2010 – Present

- Keeping Bigtable and Colossus kickin'.

D. E. Shaw & Co., L.P.; New York, NY
Systems Intern — Summer 2009

- Designed and created a statistics aggregation framework with Java, Python, and MySQL to monitor and troubleshoot database infrastructure.

Systems Intern — Summer 2008

- Designed and created a MoinMoin-wiki–based knowledge base in three weeks.
- Developed the first management tools for the MySQL infrastructure.

Morgan Stanley; New York, NY
Unix Operations Intern — Summer 2007

- Quickly developed a number of Perl tools to help manage a Linux/Solaris plant of over 6,000 servers.

TECHNICAL SKILLS

Languages Python, Ruby, Perl, C, bash/zsh, LaTeX, Java, PHP, SQL

Applications Dovecot, Git, lighttpd, Mercurial, MySQL, OpenSSH, Postfix, PostgreSQL, Puppet, Subversion

Networking TCP/IP, DHCP, DNS

Operating Systems Linux, Mac OS X, OpenBSD

PROJECTS

frankenplot — January 2010 – Present

- Revamped a data plotting application used by scientists at Argonne National Laboratory as part of a research project under Professor Carlo Segre.

eduKEN — August 2009 – May 2010

- Project manager of a team developing a video annotation and indexing system written in Ruby on Rails to improve online distance education.

PHYS240 (Computational Physics) Final Project — March 2009 – May 2009

- Wrote a C program to solve the Schrödinger equation for a hydrogen atom with fine structure and hyperfine structure corrections by using time-independent perturbation theory.

gears — July 2008 – Present

- Writing a Python command-line frontend to the Transmission BitTorrent client that supports improved filtering and search capabilities while better adhering to Unix philosophy.

"The Scalability of the AMD64 Architecture" — Fall 2004 – Spring 2005

- Explored the scalability of AMD64 processors in a compute cluster built from commodity computer components.