Stephen Rosen `http://sirosen.net` sirosen@uchicago.edu

Work Experience

Globus
SaaS Backend Engineer
Computation Institute, University of Chicago; Argonne National Lab
July 2013 – Present

- Developed Chef cookbooks, bash scripts, and python scripts to maintain Globus servers
- Managed the deployment of code from multiple teams onto QA and production servers, including Build and Release Engineering and Workflow Automation

Manticore Project
Contributor
John Reppy, University of Chicago
June 2011 – June 2013

- Adapted thread scheduling to prioritize non-IO bound computations
- Developed a target for full or partial flattening on arbitrarily nested arrays and tuples as a Nested Flat Array

Computer Science Instructional Laboratories
System Administrator
University of Chicago
May 2010 – June 2013

- Administered Mac OS X servers, Ubuntu servers, VMWare ESXi servers, and Mac OS X workstations
- Modified and used tools including radmind, Nagios, Fabric, Parallels, and VMWare
- Designed and implemented a centralized administration and configuration managment service

Computer Science Department
TA, Grader
University of Chicago
January 2012 – June 2013

- Networks and Distributed Systems (Winter 2012, Spring 2013), Computer Science with Applications I (Autumn 2012), Honors Introduction to Computer Science II (Winter 2013)

Skills & Experience

Open Source Work

SALVE `salve.sirosen.net`
Manticore `manticore.cs.uchicago.edu`

Programming & Scripting Languages & Formats

Python C SML Bash SQL Ruby Java awk (GNU) make ooc JavaScript (& jQuery) flex/bison AppleScript x86 Assembly C++ LISP Haskell Go R Lua PHP XSLT JSON XML mustache ERB CSS Liquid jinja

Tools & Software

nginx Chef Jenkins Travis CI nagios OSSEC Vagrant JIRA Sentry (getsentry.com) Elasticsearch Postgres rsyslog

Platforms & Operating Systems

AWS Mac OS X Ubuntu Debian CentOS RedHat VMWare (ESXi) SUSE ArchLinux

Education

University of Chicago
BS in Computer Science and BS in Mathematics
GPA 3.5
June 2013

Notable Courses: Topics in Operating Systems, Advanced Distributed Systems, Formal Languages, Algebraic Number Theory

Publications

Data-Only Flattening for Nested Data Parallelism
Manticore Project, University of Chicago
L. Bergstrom, J. Reppy, S. Rosen, A. Shaw, M. Rainey, M. Fluet
PPoPP 2013

- Generalized parallel segmented sums into segmented reductions, optimized segmented reduce

Status Report: The Manticore Project (2012)
Manticore Project, University of Chicago
C. Berger, L. Bergstrom, J. Reppy, S. Rosen, N. Sandler, A. Shaw, M. Rainey, M. Fluet