

Work Experience

Globus

SaaS Backend Engineer
University of Chicago
July 2013 – Present

- o Maintained 24x7 production SaaS services on AWS as a member of operations team
- o Develop software for several projects, including the open source Globus SDK and CLI

Manticore Project

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

- o Adapted thread scheduling to prioritize non-IO bound computations
- o Worked on full or partial flattening on arbitrarily nested arrays and tuples

Computer Science Instructional Laboratories

System Administrator
University of Chicago
May 2010 – June 2013

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

Computer Science Department

TA, Grader
University of Chicago
January 2012 – June 2013

- o 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

Contributions to... click.palletsprojects.com,
webargs.readthedocs.io, and more!

[nose2](https://nose2.io/) nose2.io
Globus SDK globus-sdk-python.readthedocs.io
Globus CLI github.com/globus/globus-cli

Programming & Scripting Languages

Python, Bash, make, awk, SQL, Javascript, CSS, Ruby, C, SML, Java, and a smattering of many others

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

- o 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