

ALEXANDER RASMUSSEN

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EDUCATION

University of California, San Diego

Ph.D. in Computer Science and Engineering

Advisor: Dr. Amin Vahdat

La Jolla, CA

(September 2007 – Present)

University of California, Berkeley

B.S. in Electrical Engineering and Computer Science with High Honors

Cumulative GPA: 3.849

Regents' and Chancellor's Scholar

Berkeley, CA

(May 2007)

EXPERIENCE

Research Intern, Microsoft Research (6/2008 – 9/2008)

- Designed and built prototype of Fluxo, a system for automatically placing caches in Internet services.

Graduate Researcher, UC San Diego CSE Systems and Networks Group (8/2007 – Present)

- MapStore: Strongly-consistent wide-area storage system (Current)

Engineering Intern - Deep Web Indexing, Google (5/2007 – 8/2007)

- Developed a dashboard for Google's deep web indexing system.
- Analyzed indexing statistics to identify major weaknesses in existing system.

Student Researcher, UC Berkeley Undergraduate Parallelism Group (1/2007 – 5/2007)

- Participated in development of an interface between the STk Scheme interpreter and Hadoop, an open-source implementation of MapReduce.
- Developed a MapReduce-based project for Berkeley's introductory data structures course.

Engineering Intern - AdWords Frontend Billing, Google (5/2006 – 8/2006)

- Migrated budget handlers operating on multiple frontends to more modern WebWork MVC framework.
- Implemented interceptors for authentication and parameter injection.
- Augmented testing infrastructure for budget handling with mock budget object creating facility.
- Participated in the AdWords Frontend release cycle, documentation maintenance and construction.

Research Assistant, P2 Declarative Networking Project, UC Berkeley (1/2006 – 5/2007)

- Ported internal time representation to use Boost, a powerful, open-source set of C++ libraries.
- Implemented a wrapper for STL lists for use in PEL, P2's internal expression language.
- Added a basic type for duplicate-insensitive frequency distribution sketches to PEL.

PUBLICATIONS

Alexander Rasmussen, Emre Kiciman, Benjamin Livshits, Madanlal Musuvathi. “**Short Paper: Improving the Responsiveness of Internet Services with Automatic Cache Placement.**” 4th European Conference in Computer Systems, March 2009.

Jayant Madhavan, David Ko, Lucja Kot, Vignesh Ganapathy, Alex Rasmussen, Alon Halevy. “**Google's Deep-Web Crawl.**” 2008 Conference on Very Large Databases, August 2008.

Matthew Johnson, Robert H. Liao, Alexander Rasmussen, Ramesh Sridharan, Dan Garcia and Brian K. Harvey. “**Infusing Parallelism into Introductory Computer Science Curriculum using MapReduce.**” UC Berkeley Technical Report No. UCB/EECS-2008-34, April, 2008.