

# Robert Kiefer

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## Education

PRINCETON UNIVERSITY, September 2010 to Present

- Pursuing a Ph.D. in Computer Science
- Advisor: Asst. Prof. Michael Freedman (mfreed@cs.princeton.edu)

UNIVERSITY OF MARYLAND, August 2006 to May 2010

- BS in Computer Science

## Research

Interests: Distributed systems, networks, mobile computing, cloud computing

PRINCETON UNIVERSITY, May 2011 to Present

- Contributed to the Serval project (<http://www.serval-arch.org>), specifically the implementation and evaluation of the migration protocols.

UNIVERSITY OF MARYLAND, May 2009 to August 2010

- Undergraduate research assistant with Prof. Bobby Bhattacharjee
- Development and building of Hoodnets, a system designed for multi-interface mobile clients to pool and share their limited bandwidth by forming an ad-hoc network on one interface and auctioning their bandwidth on another interface.

## Publications

- Erik Nordstrom, David Shue, Prem Gopalan, Rob Kiefer, Matvey Arye, Steven Ko, Jennifer Rexford, and Michael J. Freedman. "Serval: An End-Host Stack for Service-Centric Networking." Proc. 9th Symposium on Networked Systems Design and Implementation (NSDI '12), San Jose, CA, April 2012.

## Teaching

- COS461: Computer Networks, Assistant in Instruction, Spring 2012
- COS126: General Computer Science, Assistant in Instruction, Fall 2011

## **Employment**

SWOOPTTEXT, November 2010 – July 2011

- Designed and implemented the original PHP/MySQL backend application logic for the SwoopTEXT platform.
- <http://www.swooptext.com>

INFORMS, semester breaks 2005 – 2008

- Designed and implemented several PHP/MySQL web-based applications including: a job placement service, a journal subscription-tracking service, and a course management service

## **Awards and Honors**

- President's Scholarship to the University of Maryland, 2006.