Akshay Narayan

akshay@eecs.berkeley.edu
eecs.berkeley.edu/~akshay

Education

Bachelor of Science, Computer Science and Engineering. May 2015.
University of California, Berkeley. High Honors. GPA 3.855.

Research Experience

University of California, Berkeley
Spring 2014 - Present
Research Assistant, NetSys Lab

- Helped develop and improved an event-based packet simulator, "YAPS" (Yet Another Packet Simulator), with support for low-effort implementation of novel transport protocols and traffic matrices and support for cut-through routing. Experimented with novel datacenter transport protocol designs.
- Parsed and analyzed custom kernel module log output to model network traffic and performance in disaggregated datacenters.

Publications
"pHost: Distributed Near-Optimal Datacenter Transport Over Commodity Network Fabric." Peter Gao, **Akshay Narayan**, Gautam Kumar, Rachit Agarwal, Sylvia Ratnasamy, Scott Shenker. *CoNEXT 2015.*

Posters
"Transport in Disaggregated Datacenters." **Akshay Narayan**, Peter Gao, Gautam Kumar, Rachit Agarwal, Sylvia Ratnasamy, Scott Shenker. *EECS Undergraduate Research Symposium 2015.*

Projects
"Network Support for Resource Disaggregation in Datacenters." Peter Gao, **Akshay Narayan**, Sangjin Han, Rachit Agarwal, Sylvia Ratnasamy, Scott Shenker. *Under Submission, NSDI 2016.*
"Measuring the Energy Impact of Security Protocols." **Akshay Narayan**, Michael Chen, Vern Paxson.
"Turbo: Ultra Low Latency Datacenter Transport." **Akshay Narayan**, Sarah Hung, Gautam Kumar, Kaifei Chen, Sylvia Ratnasamy, Ion Stoica.

Teaching

CS168: Introduction to Computer Networks. Teaching Assistant.
Professor: Sylvia Ratnasamy. Average Student Rating: 4.33 / 5

Industry Experience

Microsoft
May 2014 - August 2014
Software Development Engineer Intern.
Operating Systems Group: Application Compatibility Team.
Developed an application that allows sysadmins to view application usage information for Windows deployments.
C, C++, C#

Jive Software
May 2013 - August 2013
Engineering Intern. Platform API Team.
Developed a web application on top of the Jive API and the highly-available, distributed Jive SDK framework to allow third parties to push information into the Jive platform.
Node.js, redis, PostgreSQL, backbone.js

NASA Ames Research Center
May 2012 - November 2012
Education Associates Program.
Developed a mobile application to allow playback of air traffic control simulations.
Android, OpenGL ES

Honors and Awards

UC Berkeley Boeing Scholar, *2014*
UC Berkeley Eta Kappa Nu, *2012-*
UC Berkeley Regents and Chancellors Scholar, *2011-2015*