

Akshay Narayan
Computer Science

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EDUCATION

University of California, Berkeley.

Bachelor of Science with High Honors, May 2015.

Electrical Engineering and Computer Science. GPA 3.855.

RESEARCH EXPERIENCE

University of California, Berkeley

Spring 2014 — Present

Staff Researcher, NetSys Lab

- Studied novel datacenter transport protocol designs.
- Maintained, improved a new packet simulator with support for low-effort implementation of novel transport protocols and traffic matrices and support for cut-through routing.
- Modeled network performance in next-generation datacenter architectures.

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. Spring 2015.

“Turbo: Ultra Low Latency Datacenter Transport.” **Akshay Narayan**, Sarah Hung, Gautam Kumar, Kaifei Chen, Sylvia Ratnasamy, Ion Stoica. Spring 2014.

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*