

Srinath Setty

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Research interests

Designing distributed systems with a strong theoretical foundation to enhance security, privacy, and integrity properties.

Education

Ph.D. Computer Science, The University of Texas at Austin, Fall 2008 – Present
Adviser: Prof. Michael Walfish

M.S. Computer Science, The University of Texas at Austin, December 2010

B.E. Information Technology, NIT Karnataka Surathkal, India, May 2006
with the University Gold Medal

Employment

Graduate Research Assistant, UT Austin, Summer 2009 – Present

Research Intern, Distributed systems group, Microsoft Research, Redmond, WA, Summer 2011

Teaching Assistant, UT Austin, Fall 2008 & Spring 2009

Software Engineer, Yahoo! Research & Development, Bangalore, India 2006 – 2008

Research Intern, Indian Institute of Science, Bangalore, India, Summer 2004 & Summer 2005

Awards and honors

1. University Gold Medal, NIT Karnataka Surathkal, India, 2006: A gold medal is awarded to the top student from each major.
2. Rajiv Gandhi Science Talent Research Fellow for the year 2005: Awarded by JNCASR, Bangalore, India to the best research project, from each major, carried out during JNCASR Summer Research Fellowships Program 2005.
3. Selected for JNCASR Summer Research Fellowships Program (SRFP) 2005.
4. Best outgoing student of the department for the year 2006, NIT Karnataka Surathkal, India.
5. Nominee, Yahoo! Ratna award, 2007: The highest performance award at Yahoo! Research and Development, Bangalore, India.
6. Winner, Yahoo! Hackday, twice in 2007–2008: a competition held by Yahoo! to allow employees to build and present innovative products to the top management.

Publications

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1. Srinath Setty, Victor Vu, Nikhil Panpalia, Benjamin Braun, Andrew J. Blumberg, and Michael Walfish
Taking proof-based verified computation a few steps closer to actual practicality
USENIX Security Symposium 2012, Bellevue, WA, August 2012
2. Srinath Setty, Richard McPherson, Andrew J. Blumberg, and Michael Walfish
Making argument systems for outsourced computation practical (sometimes)
Network & Distributed System Security Symposium NDSS 2012, San Diego, CA, February 2012
3. Prince Mahajan, Srinath Setty, Sangmin Lee, Allen Clement, Lorenzo Alvisi, Mike Dahlin, and Michael Walfish
Depot: Cloud Storage with Minimal Trust
ACM Transactions on Computer Systems, Volume 29, Number 4, Article 12, December, 2011
4. Srinath Setty, Andrew J. Blumberg, and Michael Walfish
Toward practical and unconditional verification of remote computations
USENIX Workshop on Hot Topics in Operating Systems HotOS 2011, Napa Valley, CA, May 2011
5. Lon Ingram, Ivaylo Popov, Srinath Setty, and Michael Walfish
Repair from a chair: Computer repair as an untrusted cloud service
USENIX Workshop on Hot Topics in Operating Systems HotOS 2011, Napa Valley, CA, May 2011
6. Prince Mahajan, Srinath Setty, Sangmin Lee, Allen Clement, Lorenzo Alvisi, Mike Dahlin, and Michael Walfish
Depot: Cloud Storage with Minimal Trust
USENIX Symposium on Operating Systems Design and Implementation OSDI 2010, Vancouver, BC, Canada, October 2010
7. Indrajit Roy, Srinath Setty, Ann Kilzer, Vitaly Shmatikov, and Emmett Witchel
Airavat: Security and Privacy for MapReduce
USENIX Symposium on Networked Systems Design and Implementation NSDI 2010, San Jose, CA, April 2010

Patents

Smita Wadhwa, Srinath Setty, and Pawan Gupta, Video Encoding for Mobile devices, Yahoo! Inc disclosure (filed in 2008)

Posters

Prince Mahajan, Srinath Setty, Sangmin Lee, Allen Clement, Lorenzo Alvisi, Mike Dahlin, and Michael Walfish, Depot: Cloud Storage with Minimal Trust, In USENIX OSDI poster session 2010

Software packages

PEPPER: a framework for building verifiable computations; implements the PEPPER protocol described in our NDSS 2012 paper. The code is available from <https://github.com/srinathtv/pepper> under a BSD-style license.