

Anurag Khandelwal

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EDUCATION

University of California, Berkeley, Berkeley, CA, USA

Ph.D. Candidate Computer Science

Aug 2013 – Present

- Advisor: Prof. Ion Stoica
- Research area: Big Data Analytics.

Indian Institute of Technology, Kharagpur, Kharagpur, India

B.Tech. Computer Science and Engineering

Jul 2009 – May 2013

- GPA: 9.63 / 10.0

RESEARCH EXPERIENCE

Microsoft Research, Cambridge, UK

Research Intern

Jun 2014 – Sep 2014

- Worked on the FARM project, which exploits RDMA to expose a cluster's memory as a shared address space and support ACID transactions. Worked on designing space efficient data-structures for FARM, that explore the tradeoff between fast point operations (lookups, updates), and efficient range queries on large volumes of data.
- Mentor: Dushyanth Narayanan

Microsoft Research, Redmond, WA, USA

Research Intern

May 2012 – Aug 2012

- Analyzed problems in Data Center Networks from an adversarial perspective. Explored how a malicious tenant could exploit certain problems in Data Center Networks to deny service to certain other tenants, or get an unfair share of the network resources.
- Mentors: Navendu Jain, Seny Kamara

IIT Kharagpur, CSE, Kharagpur, India

Undergraduate Research Assistant

Dec 2010 – Jan 2011

- Studied Routing in Delay Tolerant Networks (DTNs). Designed a simulator to model the effects of directional and omnidirectional antennas on network diameter.
- Mentor: Prof. Niloy Ganguly

INDUSTRY EXPERIENCE

Nucleodyne Systems, Cupertino, CA, USA

Systems Programming Intern

May 2011 – Aug 2011

- Worked on at driver development for the HP-UX Kernel and analyzed the Linux SCSI Subsystem. Tested the SCSI protocol and its command set. Worked on automation of SCSI command set testing with a Virtual Tape Library.
- Mentor: Kallol Biswas

PUBLICATIONS

CONFERENCE AND WORKSHOP PAPERS

- [1] [A. Khandelwal](#), R. Agarwal, and I. Stoica, "BlowFish: Dynamic Storage-Performance Tradeoff in Data Stores," in *NSDI*, Santa Clara, California, USA. Mar 2016 (*to appear*).
- [1] R. Agarwal, [A. Khandelwal](#), and I. Stoica, "Succinct: Enabling Queries on Compressed Data," in *NSDI*, Oakland, California, USA. May 2015.

TECHNICAL REPORTS

- [2] [A. Khandelwal](#), N. Jain, and S. Kamara, "Attacking Data Center Networks from the Inside," Technical Report MSR-TR-2015-52, Jun 2015.

ACADEMIC HONORS & AWARDS SKILLS

Madan Sundar Sahu Memorial Scholarship, IIT, Kharagpur
For outstanding Academic Performance.

2009 – 2010

Programming Languages: C, C++, C#, Java, Scala, Python, PHP