

Anurag Khandelwal

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EDUCATION	University of California, Berkeley , Berkeley, CA, USA	
	Ph.D. Candidate Computer Science	Aug 2013 – Present
	<ul style="list-style-type: none">• 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
	<ul style="list-style-type: none">• GPA: 9.63 / 10.0	
RESEARCH EXPERIENCE	Microsoft Research , Cambridge, UK	
	Research Intern	Jun 2014 – Sep 2014
	<ul style="list-style-type: none">• 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
	<ul style="list-style-type: none">• 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
	<ul style="list-style-type: none">• 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
	<ul style="list-style-type: none">• 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 <i>NSDI</i> , Santa Clara, California, USA. Mar 2016 (<i>to appear</i>).	
	[1] R. Agarwal, A. Khandelwal , and I. Stoica, "Succinct: Enabling Queries on Compressed Data," in <i>NSDI</i> , 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	Madan Sundar Sahu Memorial Scholarship, IIT, Kharagpur	2009 – 2010
	For outstanding Academic Performance.	
SKILLS	Programming Languages: C, C++, C#, Java, Scala, Python, PHP	