

# Anurag Khandelwal

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**Education**     **University of California Berkeley**     2013 - Present  
PhD Student in Computer Science  
Advised by Prof. Ion Stoica

**Indian Institute of Technology, Kharagpur**     2009 - 2013  
B. Tech. in Computer Science and Engineering  
Department Rank 1, CGPA: 9.63 / 10.0

**Research Interests**     Computer Systems and Networks

**Research Experience**     **University of California, Berkeley** - Prof. Ion Stoica  
*Graduate Student, Fall 2013 - Present*  
Design of distributed storage systems for interactive queries at scale.

**Microsoft Research Cambridge** - Dushyanth Narayanan  
*Summer Research Intern, 2014*  
Design of space efficient indexing data-structures for high performance over RDMA networks, as a part of the FARM project.

**Microsoft Research Redmond** - Navendu Jain, Seny Kamara  
*Summer Research Intern, 2012*  
Analysis of the extent to which public cloud platforms (Microsoft Azure, Amazon EC2) are vulnerable to internal denial of service attacks.

**IIT Kharagpur** - Prof. Niloy Ganguly  
*Undergraduate Research Assistant, December 2010 - April 2011*  
Study of Delay Tolerant Networks to understand the effects of directional and omnidirectional antennas on network diameter.

**Industry Experience**     **Nucleodyne Systems, Cupertino, CA** - Kallol Biswas  
*Summer Research Intern*  
Driver development and testing for HP-UX Kernel SCSI subsystem.

Conference  
Publications

- [1] **Confluo: Distributed Monitoring and Diagnosis Stack for High Speed Networks**  
*Networked Systems Design and Implementation (NSDI) 2019*  
Anurag Khandelwal, Rachit Agarwal, Ion Stoica
- [2] **ZipG: A Memory-efficient Graph Store for Interactive Queries**  
*International Conference on Management of Data (SIGMOD) 2017*  
Anurag Khandelwal, Zongheng Yang, Evan Ye, Rachit Agarwal, Ion Stoica
- [3] **BlowFish: Dynamic Storage-Performance Tradeoff in Data Stores**  
*Networked Systems Design and Implementation (NSDI) 2016*  
Anurag Khandelwal, Rachit Agarwal, Ion Stoica
- [4] **Succinct: Enabling Queries on Compressed Data**  
*Networked Systems Design and Implementation (NSDI) 2015*  
Rachit Agarwal, Anurag Khandelwal, Ion Stoica

Technical  
Reports

- [1] **Attacking Data Center Networks from the Inside**  
*MSR Technical Report MSR-TR-2015-52, 2015*  
Anurag Khandelwal, Navendu Jain, Seny Kamara

Invited Talks

- Realtime Monitoring and Analysis with Confluo**  
*Splunk, San Francisco, February 2018*
- ZipG: A Memory-efficient Graph Store for Interactive Queries**  
*Conference Talk at SIGMOD, Chicago, May 2017*
- BlowFish: Dynamic Storage-Performance Tradeoff in Data Stores**  
*Conference Talk at NSDI, Santa Clara, March 2016*
- Succinct: Enabling Queries on Compressed Data**  
*SF Big Analytics Meetup, San Francisco, September 2016*  
*Bay Area AI Meetup, San Francisco, September 2016*  
*Cloudera, San Francisco, June 2016*  
*Elasticsearch Meetup, San Francisco, June 2016*

Teaching

- CS162: Operating Systems and Systems Programming**  
As GSI with Prof. Ion Stoica
- CS168: Introduction to the Internet: Architecture and Protocols**  
As GSI with Prof. Sylvia Ratnasamy

Awards and  
Fellowships

- Madan Sundar Sahu Scholarship, IIT Kharagpur**  
For outstanding academic performance (2009-2010)