

ANURAG KHADELWAL

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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 low-latency, high-throughput distributed 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, 2011
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] **Cloud Programming Simplified: A Berkeley View on Serverless Computing**
UC Berkeley Technical Report No. UCB/EECS-2019-3
Eric Jonas, Johann Schleier-Smith, Vikram Sreekanti, Chia-Che Tsai, **Anurag Khandelwal**, Qifan Pu, Vaishaal Shankar, Joao Menezes Carreira, Karl Krauth, Neeraja Yadwadkar, Joseph Gonzalez, Raluca Ada Popa, Ion Stoica and David A. Patterson
- [2] **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)

References

[Prof. Ion Stoica](#)

Electrical Engineering and Computer Science

University of California, Berkeley

istoica@cs.berkeley.edu

[Prof. Rachit Agarwal](#)

Computer Science

Cornell University

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[Prof. Aditya Akella](#)

Computer Science

University of Wisconsin-Madison

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[Prof. Joseph Hellerstein](#)

Computer Science

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