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 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] **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 Fransisco, June 2016
Elasticsearch Meetup, San Franscisco, 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
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Prof. Rachit Agarwal
Computer Science
Cornell University
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Prof. Aditya Akella
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University of Wisconsin-Madison
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Prof. Joseph Hellerstein
Computer Science
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hellerstein@cs.berkeley.edu