Anuj Kalia

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Education

2013–present	**Ph.D. student in Computer Science**, *Carnegie Mellon University*. Adviser: Prof. David Andersen
2009–2013	**B.Tech. in Computer Science and Engineering**, *IIT-Delhi*. GPA – 9.75, 2nd in class

Conference publications

NSDI 2019	Datacenter RPCs can be General and Fast **Anuj Kalia**, Michael Kaminsky, and David G. Andersen
ATC 2018, short paper	Putting the "Micro" Back in Microservice Sol Boucher, **Anuj Kalia**, Michael Kaminsky, and David G. Andersen.
OSDI 2016	FaSST: Fast, Scalable, and Simple Distributed Transactions with Two-Sided (RDMA) Datagram RPCs **Anuj Kalia**, Michael Kaminsky, and David G. Andersen
ATC 2016	Design Guidelines for High Performance RDMA Systems **Anuj Kalia**, Michael Kaminsky, David G. Andersen **Best Student Paper Award**. Appears as an invited article in USENIX ;login:.
ISCA 2015	Architecting to Achieve a Billion RPS Throughput on a Single Key-Value Store Server Platform Sheng Li, Hyeontaek Lim, Victor Lee, Jung Ho Ahn, **Anuj Kalia**, Michael Kaminsky, David Andersen, Seongil O, Sukhan Lee, Pradeep Dubey
NSDI 2015	Raising the Bar for Using GPUs in Software Packet Processing **Anuj Kalia**, Dong Zhou, Michael Kaminsky, David G. Andersen
SIGCOMM 2014	Using RDMA Efficiently for Key-Value Services **Anuj Kalia**, Michael Kaminsky, David G. Andersen

In preparation

	Microsecond-scale Persistent Distributed Systems with Real Persistent Memory **Anuj Kalia**, Michael Kaminsky, and David G. Andersen
Short paper	A Comparison of CPUs and FPGAs for Database Pattern Matching Xin Zhang, **Anuj Kalia**, Michael Kaminsky, and David G. Andersen

Journal publications

MICRO Top Picks, 2016	Achieving One Billion Key-Value Requests per Second on a Single Server Sheng Li, Hyeontaek Lim, Victor Lee, Jung Ho Ahn, **Anuj Kalia**, Michael Kaminsky, David Andersen, Seongil O, Sukhan Lee, Pradeep Dubey
TOCS, 2016	Full-Stack Architecting to Achieve a Billion-Requests-Per-Second Throughput on a Single Key-Value Store Server Platform Sheng Li, Hyeontaek Lim, Victor Lee, Jung Ho Ahn, **Anuj Kalia**, Michael Kaminsky, David Andersen, Seongil O, Sukhan Lee, Pradeep Dubey

Work experience

Fall 2015   **Research Intern**, Microsoft Research, Cambridge, UK
Worked with Dushyanth Narayanan to design a physical time–based failure recovery protocol for an erasure-coded distributed transactional object store (FARM)

Summer 2012   **Software Engineering Intern**, Google India, Hyderabad
Created a framework to generate runtime-configurable MapReduce pipelines to collect custom statistics

Summer 2011   **Engineering Intern**, Imperial College London and Maxeler Technologies
Worked with Prof. Wayne Luk to accelerate AES encryption with Maxeler's FPGA dataflow engines

Summer 2010   **Teacher**, Vidyamandir Classes, New Delhi
Taught chemistry to high school students

Awards and achievements

2017–2019   Facebook fellowship

2016   Best Student Paper award at USENIX ATC, 2016

2009–2013   Dean's award for academic performance ($\sim$3 in class), in every semester at IIT-Delhi

2010, 2012   OP Jindal Engineering and Management Scholarship, awarded to 1 student from each year at IIT-Delhi

2009   Rank 24 in Indian Institute of Technology Joint Entrance Exam, among around 400,000 students