
Education

- 2013—2019 **Ph.D. 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

Work experience

- Nov 2020– Researcher, Microsoft Azure for Operators Office of the CTO
- Jan–Nov 2020 Researcher, Microsoft Research Redmond
- Oct—Dec 2019 Post-doctoral scholar, Carnegie Mellon University
- Fall 2015 Research Intern, Microsoft Research, Cambridge, UK

Conference publications

- ACM SIGCOMM, 2023 Resilient Baseband Processing in Virtualized RANs with Slingshot
Nikita Lazarev, Tao Ji, **Anuj Kalia**, Daehyeok Kim, Ilias Marinos, Francis Y. Yan, Christina Delimitrou, Zhiru Zhang, Aditya Akella
- USENIX NSDI, 2023 Scalable Distributed Massive MIMO Baseband Processing
Junzhi Gong, **Anuj Kalia**, and Minlan Yu
- ACM CoNEXT, 2020 Agora: Software-based Real-time Massive MIMO Baseband
Jian Ding, Rahman Doost-Mohammady, **Anuj Kalia**, Lin Zhong.
- ACM SoCC, 2020 Challenges and Solutions for Fast Remote Persistent Memory Access
Anuj Kalia, Michael Kaminsky, and David G. Andersen
Best Paper Award.
- USENIX ATC 2020 Lightweight Preemptible Functions
Sol Boucher, **Anuj Kalia**, Michael Kaminsky, and David G. Andersen.
- USENIX NSDI 2019 Datacenter RPCs can be General and Fast
Anuj Kalia, Michael Kaminsky, and David G. Andersen
Best Paper Award. Appears as an invited article in USENIX ;login:.
- USENIX ATC 2018, short Putting the “Micro” Back in Microservice
Sol Boucher, **Anuj Kalia**, Michael Kaminsky, and David G. Andersen.
- USENIX OSDI 2016 FaSST: Fast, Scalable, and Simple Distributed Transactions with Two-Sided (RDMA) Datagram RPCs
Anuj Kalia, Michael Kaminsky, and David G. Andersen
- USENIX 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:.
- IEEE 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
- USENIX NSDI 2015 Raising the Bar for Using GPUs in Software Packet Processing
Anuj Kalia, Dong Zhou, Michael Kaminsky, David G. Andersen
- ACM SIGCOMM 2014 Using RDMA Efficiently for Key-Value Services
Anuj Kalia, Michael Kaminsky, David G. Andersen

Journal publications

- IEEE 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
- ACM 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

Service

- Program Committee USENIX NSDI 2022, 2024; USENIX ATC 2021, 2022, 2023
- External Review Committee USENIX OSDI 2021
- Artifact Co-chair OSDI + ATC 2022

Awards and achievements

- 2020 Best Paper award at ACM Symposium on Cloud Computing (SoCC) conference, 2020
- 2020 Honorable Mention for the ACM SIGOPS Doctoral Dissertation Award
- 2020 Carnegie Mellon University's Edmund M. Clarke Doctoral Dissertation Award
- 2019 Best Paper award at USENIX Networked Systems Design and Implementation (NSDI) conference, 2019
- 2017—2019 Facebook PhD fellowship (approx 200,000 dollars), awarded to 12 students worldwide
- 2016 Best Student Paper award at USENIX Annual Technical Conference (ATC), 2016
- 2016 Paper selected to IEEE MICRO Top Picks, 2016
- 2016 Paper invited to ACM Transactions on Computer Systems, 2016
- 2009—2013 Dean's award for academic performance (~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