

Chinmay Kulkarni (www.chinmayk.net, github.com/chinkulkarni)

INTERESTS	Distributed Systems, Key-Value Stores, Cloud Computing, Virtualization		
EDUCATION	University of Utah Salt Lake City, USA Doctor of Philosophy in Computer Science, Ongoing, Advised by Prof. Ryan Stutsman		
PUBLICATIONS	Achieving High Throughput and Elasticity in a Larger-than-Memory Store PREPRINT Chinmay Kulkarni , Badrish Chandramouli, and Ryan Stutsman (Under Submission) NrOS: Effective Replication and Sharing in an Operating System OSDI 2021 Ankit Bhardwaj, Chinmay Kulkarni , Reto Achermann, Irina Calciu, Sanidhya Kashyap, Ryan Stutsman, Amy Tai, and Gerd Zellweger Adaptive Placement for In-memory Storage Functions ATC 2020 Ankit Bhardwaj, Chinmay Kulkarni , and Ryan Stutsman Splinter: Bare-Metal Extensions for Multi-Tenant Low-Latency Storage OSDI 2018 Chinmay Kulkarni , Sara Moore, Mazhar Naqvi, Tian Zhang, Robert Ricci, and Ryan Stutsman Rocksteady: Fast Migration for Low-latency In-memory Storage SOSP 2017 Chinmay Kulkarni , Aniraj Kesavan, Tian Zhang, Robert Ricci, and Ryan Stutsman		
OPEN SOURCE	microsoft/FASTER	vmware/node-replication	utah-scs/splinter
EXPERIENCE	University of Utah Salt Lake City, USA <i>Research Assistant advised by Ryan Stutsman, 2016 - Present</i> Worked on multi-tenant low-latency stores that can be extended at runtime using type- and memory-safe functions, and fast, low impact data migration protocols. Google Sunnyvale, USA <i>Research Intern hosted by Larry Kai, Summer 2020</i> Worked on defining and measuring the availability of Google services. Designed and built a dashboard that Google engineers can use to visualize and monitor the availability of their service. VMware Palo Alto, USA <i>Research Intern hosted by Gerd Zellweger, Summer 2019</i> Designed, built, tested and evaluated a Rust library that constructs a highly scalable, linearizable, concurrent data structure from a single threaded implementation. Microsoft Redmond, USA <i>Research Intern hosted by Badrish Chandramouli, Summer 2018</i> Worked on an RPC layer and scale out protocol for FASTER, a key-value store that scales linearly across cores to service 160 million updates per second.		
SERVICE	JSys (Student Editor, 2021), HotCloud'20 (External Reviewer)		
TALKS AND POSTERS	Scaling an Operating System to Many Cores Using a System Call Log <i>SOSP 2019 (Poster), Huntsville, Ontario, Canada</i> Raising The Efficiency of μStorage <i>Google PhD Fellowship Summit 2019, Mountain View, California, USA</i> Splinter: Bare-Metal Extensions for Multi-Tenant Low-Latency Storage <i>OSDI 2018, Carlsbad, California, USA</i> Rocksteady: Fast Migration for Low-latency In-memory Storage <i>SOSP 2017, Shanghai, China</i>		

AWARDS

Google PhD Fellowship, *Systems and Networking*, 2019

SKILLS

Rust, Python, R, C++, Kernel-bypass networking, Lock-free programming