

Chinmay Kulkarni

PhD Student, University of Utah

CONTACT	School of Computing University of Utah Salt Lake City, Utah 84112, USA	<i>Email:</i> chinmayk@cs.utah.edu <i>GitHub:</i> github.com/chinkulkarni <i>Webpage:</i> chinkulkarni.github.io
INTERESTS	Distributed Systems, Caching, 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	
	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 SOFTWARE	microsoft/FASTER vmware/node-replication (Currently under review at VMware) utah-scs/splinter	
EXPERIENCE	Google Salt Lake City, USA <i>Student Researcher hosted by Larry Kai, August 2020 - Present</i> Research with Slicer, an application agnostic auto-sharder for stateful services.	
	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.	
	Cisco Systems Bangalore, India <i>Software Development Engineer, August 2013 - December 2013</i> Worked with the Core switching - Platforming team. Also involved with the development of the inband, datapath and env components of the Cisco Catalyst 6K series of switches.	
	HotCloud'20, TKDE'18 <i>External Reviewer</i>	
SERVICE		

TALKS AND
POSTERS

Scaling an Operating System to Many Cores Using a System Call Log

SOSP 2019, Huntsville, Ontario, Canada

Raising The Efficiency of μ Storage

Google PhD Fellowship Summit 2019, Mountain View, California, USA

Splinter: Bare-Metal Extensions for Multi-Tenant Low-Latency Storage

OSDI 2018, Carlsbad, California, USA

Rocksteady: Fast Migration for Low-latency In-memory Storage

SOSP 2017, Shanghai, China

AWARDS

Google PhD Fellowship

Systems and Networking, 2019