

# Chinmay Kulkarni

PhD Student, University of Utah

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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	<b>University of Utah</b> ..... 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 <b>PREPRINT</b> <b>Chinmay Kulkarni</b> , Badrish Chandramouli, and Ryan Stutsman	
	Adaptive Placement for In-memory Storage Functions <b>ATC 2020</b> Ankit Bhardwaj, <b>Chinmay Kulkarni</b> , and Ryan Stutsman	
	Splinter: Bare-Metal Extensions for Multi-Tenant Low-Latency Storage <b>OSDI 2018</b> <b>Chinmay Kulkarni</b> , Sara Moore, Mazhar Naqvi, Tian Zhang, Robert Ricci, and Ryan Stutsman	
	Rocksteady: Fast Migration for Low-latency In-memory Storage <b>SOSP 2017</b> <b>Chinmay Kulkarni</b> , Aniraj Kesavan, Tian Zhang, Robert Ricci, and Ryan Stutsman	
OPEN SOURCE SOFTWARE	<b>microsoft/FASTER</b> <b>vmware/node-replication</b> (Currently under review at VMware) <b>utah-scs/splinter</b>	
EXPERIENCE	<b>Google</b> ..... 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.	
	<b>Google</b> ..... 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.	
	<b>VMware</b> ..... 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.	
	<b>Microsoft</b> ..... 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.	
	<b>Cisco Systems</b> ..... 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.	
	<b>HotCloud'20, TKDE'18</b> <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  $\mu$ 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*