

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

EDUCATION	University of Utah Salt Lake City, USA Doctor of Philosophy in Computer Science, Defended Spring'21, Advised by Prof. Ryan Stutsman
PUBLICATIONS	Achieving High Throughput and Elasticity in a Larger-than-Memory Store VLDB 2021 Chinmay Kulkarni , Badrish Chandramouli, and Ryan Stutsman Collaboration with Microsoft 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 Collaboration with VMware 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, Fall 2016 - Spring 2021</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	Reconfiguration and Extensibility for Low-Latency Key-Value Stores <i>PhD Defense, 2021, University of Utah, Salt Lake City, Utah, USA</i> 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
SOSP 2017, Shanghai, China

AWARDS

Google PhD Fellowship, *Systems and Networking, 2019*

SKILLS

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