Jack Kosaian

jackkosaian.github.io ⋄ jkosaian@cs.cmu.edu

EDUCATION

Carnegie Mellon University   Aug. 2017 - Present
Ph.D. in Computer Science
Advisor: Rashmi Vinayak

University of Michigan, Ann Arbor   Sept. 2013 - Dec. 2016
B.S.E. in Computer Science & Engineering

AWARDS

- NSF Graduate Research Fellowship (2017)
- Angell Scholar (2015)
- Branstrom Prize (2014)

PREPRINTS

Learning a Code: Machine Learning for Approximate Non-Linear Coded Computation
Jack Kosaian, K. V. Rashmi, Shivaram Venkataraman
arXiv:1806.01259

PUBLICATIONS

EC-Cache: Load-Balanced, Low-Latency Cluster Caching with Online Erasure Coding
K. V. Rashmi, Mosharaf Chowdhury, **Jack Kosaian**, Ion Stoica, and Kannan Ramchandran
USENIX OSDI 2016

INDUSTRY EXPERIENCE

Google BigQuery   May 2017 - July 2017
Software Engineering Intern   *Seattle, WA*
- Analyzed performance and scalability bottlenecks of high-throughput read/write API
- Proposed and prototyped a service-throttling mechanism for read API

Google Technical Infrastructure   May 2016 - Aug. 2016
Software Engineering Intern   *Mountain View, CA*
- Added support for hardware virtualization mechanisms to internal sandboxing platform
- Designed a memory allocator to reduce fragmentation for sandbox supervisor

Epic Systems   May 2015 - Aug. 2015
Software Development Intern   *Madison, WI*
- Developed dashboard for physicians to perform exploratory queries about changes in patient health