

# Jack Kosaian

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

## EDUCATION

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### Carnegie Mellon University

Ph.D. in Computer Science

Advisor: Rashmi Vinayak

Aug. 2017 - Present

### University of Michigan, Ann Arbor

B.S.E. in Computer Science & Engineering

Sept. 2013 - Dec. 2016

## AWARDS

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

## PUBLICATIONS

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### Taming Tail Latency in ML Inference via Learned Erasure-Coded Computation

Jack Kosaian, K. V. Rashmi, Shivaram, Venkataraman

To appear in SOSP 2019

### Vantage: Optimizing Video Upload for Time-shifted Viewing of Social Live Streams

Devdeep Ray, Jack Kosaian, K. V. Rashmi, Srinivasan Seshan

To appear in SIGCOMM 2019

### 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

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### Google BigQuery

Software Engineering Intern

- Analyzed performance and scalability bottlenecks of high-throughput read/write API
- Proposed and prototyped a service-throttling mechanism for read API

May 2017 - July 2017

Seattle, WA

### Google Technical Infrastructure

Software Engineering Intern

- Added support for hardware virtualization mechanisms to internal sandboxing platform
- Designed a memory allocator to reduce fragmentation for sandbox supervisor

May 2016 - Aug. 2016

Mountain View, CA

### Epic Systems

Software Development Intern

- Developed dashboard for physicians to perform exploratory queries about changes in patient health

May 2015 - Aug. 2015

Madison, WI