JACK KOSAIAN

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EDUCATION

University of Michigan, Ann Arbor   *December 2016*
B.S.E. in Computer Science & Engineering
GPA: 3.946 / 4.000
Honors and Awards: Angell Scholar, Branstrom Prize, Dean's List, University Honors
Coursework: Operating Systems, Computer Networks, Computer Architecture, Database Management Systems

RESEARCH EXPERIENCE

Software Systems Laboratory   January 2016 - Present
Undergraduate Research Assistant   *Ann Arbor, MI*

· Contribute to development and evaluation of EC-Cache, an erasure coding-based object store optimized for load balancing and reduced read latency

Laboratory for Interactive Visualization in Engineering   June 2014 - April 2015
Undergraduate Research Assistant   *Ann Arbor, MI*

· Implemented machine control algorithms for precise construction site navigation
· Improved average system accuracy of excavator bucket placement from 2.451 in. to 0.204 in.

S.M. Wu Manufacturing Research Center   Jan. 2014 - Dec. 2014
Undergraduate Research Assistant   *Ann Arbor, MI*

· Developed proof-of-concept system reflecting real-time needle positioning on MRIs during primate neurosurgery
· Built Arduino-based pressure monitor for surgical training devices

INDUSTRY EXPERIENCE

Google   May 2016 - August 2016
Software Engineering Intern   *Mountain View, CA*

· Cloud Technical Infrastructure: Kernel Virtualization

Epic Systems Corporation   May 2015 - August 2015
Software Development Intern   *Verona, WI*

· InPatient: Scoring System Analysis and Visualization

TEACHING EXPERIENCE

EECS 370: Introduction to Computer Organization   September 2015 - April 2016
Instructional Aide (IA)   *Ann Arbor, MI*

· Held weekly discussion sections and office hours to reinforce lecture material
· Wrote, administered, and graded examinations and homework assignments
· Maintained autograding system and submission similarity analyzer

LEADERSHIP EXPERIENCE

Eta Kappa Nu, Beta Epsilon Chapter   Jan. 2015 - Present
Projects Officer Fall 2015, Active Member 2015-2016

· Organize and oversee community service projects for chapter members

PUBLICATIONS

[1] K. V. Rashmi, M. Chowdhury, J. Kosaian, I. Stoica, and K. Ramchandran. Ec-cache: Load-balanced, low-latency cluster caching with online erasure coding. In *OSDI*, 2016.