James Jia

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Education

Masters of Engineering in EECS   *University of California, Berkeley 2016*
- Concentration in Data Science and Systems

Bachelor of Arts in Computer Science   *University of California, Berkeley 2015*
- CS 61 Series (Struture of Computer Programs, Data Structures, Computer Architecture)   GPA: 3.83
- Discrete Math and Probability, CS Theory/Algorithms, Computational Biology
- Programming Languages and Compilers, Database Systems, Computer Architecture and Engineering, Operating Systems and Systems Programming
- Artificial Intelligence, Machine Learning, Communication Networks, Computer Security

Professional Experience + Projects

Porting BIDData onto Spark   Aug. 2015 - Present
- Am integrating BIDData, a GPU accelerated machine learning library, onto Spark.   *github.com/BIDData*
- Programmed support for the storage and retrieval of matrix files from HDFS.   *Apache Spark*
- Implemented distributed matrix multiplication using BIDData matrices through Spark.   *HDFS*

Box Intern   May 2015 - Aug. 2015
- Developed a library sends asynchronous batch requests to memcache servers and gathers metrics including connection latency, request latency and success rate.   *Memcache*
- Created a CLI to monitor and log the health of memcache servers.   *Akka Actors in Scala*
- Integrated the library into Box's cache cluster management system to automatically detect and move unhealthy spare servers into a separate pool for fixes.   *Netty Non-blocking IO*

Apple Intern   May 2013 - Aug. 2014
- Implemented a synchronized screen capturing service for multi-machine automation tests using a launch daemon and CLI tool. The videos are used to analyze obscure bugs that are manually irreproducible.   *Objective C*
- Created a cross-functional reporting system that analyzes and displays automated QA test results. Used by several teams to push out daily reports for quality assurance.   *XPC Services* *Ruby on Rails* *OS X Mavericks and OS X Yosemite*
- Developed multi-machine UI automation for OS X Messages and OS X Server applications.

ExEquals Developer   Nov. 2012 - May 2013
- Architected the GUI for Learn Algebra, an Android app with over 195,000 downloads and a 4.5/5 rating.   *exequals.com*
- Planned and delegated various modules to the developers.
- Designed an iOS version of Learn Algebra using jqMath, mathJax, and Quartz2D.

Technical Skills

Languages: Python, Scala, Java, Objective C, Ruby, C, C++, HTML, Javascript, CSS
Software/Frameworks: Ruby on Rails, Django, RISC-V Architecture, MySQL, PostgreSQL, Hadoop, InDesign

Extracurricular Activities

Cal Ballroom   *Aug. 2013 - Present*
- Treasurer: Reorganized and managed team finances to raise several thousand dollars, paying off all team debts and putting the team back in good standing with the University.
- Dancer: Competed in five dances each of International Standard and International Latin events governed by the World DanceSport Federation.
- Teaching Assistant: Led ballroom classes of 30-60 students three times a week and held weekly office hours for individual couples.