James Jia

18 Foothill Place, Pleasanton, CA 94588 || (408) 981-1058 || jamesjia94@gmail.com || github.com/jamesjia94

Education

Masters of Engineering in EECS   *University of California, Berkeley 2016*
- Concentration in Data Science and Systems   GPA: 3.97

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

Twitch Backend Engineer on VODs
- Setting up Twitch's upload service across multiple AWS regions
- Created new embed type that shows the archived video after the stream goes offline: watch.twitch.tv/2eQWDMS
- Added Varnish in front of our VOD metadata service to mitigate stampeding herds
- Renamed twitch.tv/:channel_id/v/:video_id to twitch.tv/videos/:video_id

Oct. 2016 - Present
Go
AWS Services

Porting BIDData onto Spark
- Integrated BIDData, a GPU accelerated machine learning library, onto Spark.
- Programmed support for the storage and retrieval of matrix files from HDFS.
- Implemented distributed matrix multiplication using BIDData matrices through Spark.

Aug. 2015 - Jun. 2016
github.com/BIDData
Apache Spark
Scala

Box Intern
- Developed a library sends asynchronous batch requests to memcache servers and gathers metrics including connection latency, request latency and success rate.
- Created a CLI to monitor and log the health of memcache servers.
- Integrated the library into Box's cache cluster management system to automatically detect and move unhealthy spare servers into a separate pool for fixes.

May 2015 - Aug. 2015
Scala
Memcache
Netty NIO

Apple Intern
- 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.
- 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.
- Developed multi-machine UI automation for OS X Messages and OS X Server applications.

May 2013 - Aug. 2014
Objective C
XPC Services
Ruby on Rails
OS X Mavericks and
OS X Yosemite

ExEquals Developer   *Nov. 2012 - May 2013*
- Architected the GUI using Java for Learn Algebra, an Android app with over 195,000 downloads and a 4.5/5 rating (https://play.google.com/store/apps/developer?id=ExEquals, http://exequals.org/)
- Planned and delegated various modules to the developers
- Designed an iOS version of Learn Algebra using jqMath, mathJax, and Quartz2D

Technical Skills

Languages: Go, Python, Scala, Java, Objective C, Ruby, C, C++, HTML, Javascript, CSS
Software/Frameworks: DynamoDB, Elastic Beanstalk, CloudFormation, Lambda, Ember, Varnish, Ruby on Rails