

Kevin Shieh

2546 Warring Street, Berkeley, CA 94704
(510) 402-3004, kevshieh@gmail.com

Education

University of California, Berkeley	Fall 2011 - Spring 2015
Bachelor of Arts, Computer Science	GPA 3.387
Bachelor of Arts, Statistics	GPA 3.396

Technical Skills

Programming Languages: Java, Scala, Python, R
Operating Systems: Windows, Mac OS X, Ubuntu
Other Technology: Android, Git, Jenkins, Spark

Experience

Software Engineering Intern, Facebook, Menlo Park, CA *May 2014 - August 2014*

- Worked on the Android Messenger application, focused on improving the media consumption experience
- Built GraphQL queries, modified the photo caching policy, and designed and implemented a system to incrementally fetch photos on demand in order to reduce data usage
- Implemented tile maps for in-app message locations using the Bing Maps API
- Added support for webp to jpeg transcoding in saved images to allow for data efficient sends and extensibility

Software Engineering Intern, Ooyala, Mountain View, CA *May 2013 - August 2013*

- Designed and wrote dynamic, sub-second, multi-dimensional queries using Scala and the Spark framework
- Implemented Scala actors to concurrently ingest live, production data traffic into a Cassandra database
- Scripted configurable bash and Ruby jobs to continuously aggregate and load data into caches for in-memory ad-hoc calculations and queries on the order of milliseconds using Jenkins

Intern, Foxit Software, Fremont, CA *June 2011 - August 2011*

- Benchmarked the Foxit PDF reader for speed and functionality against competing PDF reading programs
- Surveyed K-12 teachers and community college professors about replacing traditional textbooks with tablets
- Tested tablet use with the Foxit PDF reader app and evaluated product efficacy and practicality

Intern, ASUS Computers, Fremont, CA *July 2010 - September 2010*

- Compiled online retailer pricing information for ASUS and competitor branded laptops and netbooks
- Tracked device specific information as well as timelines for each unique visit on the ASUS web-pages
- Helped perform market analysis on online prices to identify weaknesses and strengths over competitors

Projects

Messenger Sticker Sounds Hack *July 2014*

- Created cross-platform sticker sounds functionality in Facebook's Messenger application for a hackathon
- Worked in PHP, Java, and Objective-C to implement customized sounds on sticker sends, receives, and taps/clicks in web, Android, and iOS for multiple sticker packs

SimpleDB *May 2014*

- Implemented core modules required to build a basic database management system in Java
- Wrote database operators (joins, filters, aggregators) and optimized stacked operations by considering filter selectivity, join cardinality, join ordering and using Selinger's dynamic programming algorithm
- Followed the NO STEAL/FORCE and two-phase locking transaction policies when implementing transactions, locking, and concurrency control to adhere to ACID standards

Presidential Election Prediction *October 2012*

- Used k-nearest neighbors and recursive partitioning algorithms on state data from the 2004 and 2008 elections to predict results of the 2012 United States presidential election in R
- Parsed and cleaned up large amounts of data in xml, kml, csv, and txt formats using regular expressions
- Produced intuitive and visually pleasing graphics with R packages to concisely display and explain results

Relevant Coursework

- | | |
|---|-----------------------------------|
| • Introduction to Artificial Intelligence | • Concepts in Computing with Data |
| • Efficient Algorithms and Intractable Problems | • Concepts of Statistics |
| • Introduction to Database Systems | • Sampling Surveys |

Activities and Interests

- | | |
|--------------------------------------|---|
| • MOBA (DotA, HoN, LoL) enthusiast | • Super Smash Bros Melee Sheik/Peach main |
| • Recreational golf, tennis, bowling | • Going to new places |