MATT LIM

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EDUCATION

California Institute of Technology *2013 - 2017*
B.S. in Computer Science
Overall GPA: 4.0

TA for EE150: Digital Ventures Design
Caltech Basketball team 13-14

Coursework:
- Algorithms/Complexity: CS21, CS38, Ma6a
- Databases: CS121, CS122
- Operating Systems: CS24, CS124
- Machine Learning: CS155, CS156a, CS156b

SKILLS & ABILITIES

Computer Languages	Python, C, C++, Java, SQL, HiveQL, Haskell, Scheme, MATLAB, R
Technologies & Platforms	AWS, Android, libGDX, ANTLR, Apache Spark
Tools	Vim, Git, Mercurial, SVN, Bash, Inkscape, LaTeX

EXPERIENCE & PROJECTS

Intern at Facebook Summer 2016
Backend Developer *Menlo Park, CA*

· Worked on the CRM Graph team.
· Extended and optimized machine learning pipelines to improve internal usage of Facebook's business graph.

Contractor for WinnersView Spring 2016
Contractor for Analytics Startup *California*

· Met and discussed with peers and higherups to formulate captivating sports stories centered around data.
· Performed data analysis in R to determine the statistical support for an assigned story.

Intern at Salesforce Summer 2015
Developer *San Francisco, CA*

· Worked on backend of platform for batch big data processing.
· Performance tested JSON/Avro serialization in Spark pipeline.
· Worked on designing new language to act as intermediary between UI and HiveQL.
· Analyzed high level Salesforce use case and converted the corresponding SQL stored procedures to our new language.
· Wrote ANTLR grammar for new language, along with logic to convert it into the corresponding HiveQL.

Intern at Aspera Summer 2014
iOS Developer *Emeryville, CA*

· Brought company's main app, Faspex, to an iOS 7 release. Large refactors in UI and video encoding.
· Developed two sample apps in Swift to demonstrate proper use of Aspera's iPhone SDK.
· Created a Share Extension for Faspex data transfers and a Document/File Provider Extension for Faspex file sharing.

Netflix Challenge Spring 2015
Student *California*

· Worked in team of 3 on the Netflix Challenge - predicting user ratings of movies given dataset of prior ratings.
· Blended SVD, SVD++, timeSVD++, RBM to beat Netflix's performance by 8%.
· Heavily optimized for fast epochs. Pre-processed the data, aggregated computations, and focused on cache friendliness.

ADDITIONAL INFORMATION

Additional Projects	Othello AI (6th place out of 60+ Caltech students), Stairs (infinite scrolling game for iOS, Android, and desktop), OmNotify (Android notification app)
Miscellaneous	Lifeguard, Red Cross and CPR Certified, Basketball Coach