# 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

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| **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 on CRM Graph* *Menlo Park, CA*

· Extended and optimized machine learning pipelines to improve internal usage of Facebook's business graph.
· Used Python and HiveQL to architect logistic regression into data processing pipelines.

**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 on Salesforce Thunder* *San Francisco, CA*

· Designed a new language to act as an intermediary between UI and HiveQL.
· Analyzed a high level Salesforce use case and converted the corresponding SQL stored procedures to the new language.
· Wrote an ANTLR grammar for the new language, along with logic to convert it into 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

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| **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 |