

# MATT LIM

mlim@caltech.edu ◊ (925) · 639 · 4576 ◊ 1200 E. California Blvd, Pasadena CA, 91126

## EDUCATION

---

### California Institute of Technology

2013 - 2017

B.S. in Computer Science

Overall GPA: 3.93

TA for EE150: Digital Ventures Design

Caltech Basketball team

Relevant Coursework:

- CS21: Decidability and Tractability
- CS121: Intro to Databases
- CS38: Intro to Algorithms
- CS156a: Learning Systems

## SKILLS & ABILITIES

---

### Computer Languages

Java, C, C++, Objective-C, Swift, Python, SQL

### Technologies & Platforms

Android, iOS, libGDX (game development framework)

### Operating Sysems

Linux, OS X

### Tools

Vim, Git, SVN, Terminal, Xcode, Android Studio, Inkscape, Eclipse, L<sup>A</sup>T<sub>E</sub>X

## EXPERIENCE & PROJECTS

---

### Intern at Aspera

June 2014 - September 2014

*iOS Developer*

*Emeryville, CA*

- Brought company's main app, Faspex, to an iOS 7 release. Involved working across a large code base, and implementing bug fixes and enhancements (mainly in the realms of UI and video encoding).
- Developed two sample apps in Swift to demonstrate proper use of Aspera's iPhone SDK.
- Created a Share Extension in Swift that transfers data of any UTI using Faspex.
- Developed a Document/File Provider Extension in Swift that lets other apps access files stored by Faspex.
- Applied constraints to existing storyboards to make them suitable for all screen sizes (including iPhone 6).
- Implemented an OAuth + SAML flow; researched and tried Swift/Objective-C documentation tools (Doxygen, HeaderDoc, appledoc, jazzy); touched on Core Data, file coordination, and iCloud integration.

### OmNotify - [goo.gl/r48e60](http://goo.gl/r48e60)

Summer 2013

*Founder & Developer*

*California*

- Developed an Android app that makes, augments, edits, and stores notifications.
- Used a combination of AlarmManagers and Services to support notifications with custom vibrations, alarms, reminders, and schedules. Notifications with alarms and vibrations can be sent via SMS to other phones.
- Stored all notifications in a SQLite database to allow users to view, edit, and recreate old notifications.
- Added full SMS capabilities - features include an aggregate inbox and the ability to send scheduled/automated SMS messages.

### Stairs - [stairsthegame.com](http://stairsthegame.com)

January 2014 - Present

*Developer*

*California*

- Developed an original "infinite stepper" game with 8 game modes, 5 level types, and custom music and icons.
- Created using the Java libGDX framework. Will be available for iOS, Android, and Desktop.

### GoogleJump Mentorship Program

Summer 2014

*Participant*

*California*

- Worked with 2 other participants and a Google engineer mentor to create Aux, an Android app that utilizes the Places and Location APIs in order to smartly and automatically toggle various phone settings.
- Used a SQLite database to support custom profiles that dictate how the phone behaves under certain actions/locations.

## ADDITIONAL INFORMATION

---

### Additional Projects

Othello AI (6th place out of 60+ Caltech students), Caltech Open (Android app that tells students if and when buildings and services are open), Simple SMS (Android SMS client)

### Miscellaneous

Lifeguard, Red Cross and CPR Certified, Basketball Coach, Slader Online Math Tutor