Lee J. Avital

(646) 320-9143, leeavital@gmail.com

EDUCATION
Rochester Institute of Technology
B.S. in Computer Science, expected May 2015
Minor in Music and Technology
Dean's List: Fall 2011 - Present

SPECIAL COURSEWORK

- Compiler Construction (spring 2014)
- Programming Language Theory (fall 2013)
- Aspect Oriented Programming (fall 2013)
- Language, Technology and Society (spring 2013)
- Acoustic Theory (spring 2013)

PORTFOLIO

- **Personal Website** *http://leeavital.com*
- **Github** *https://github.com/leeavital*

PROJECTS

- **ClouDE** A rudimentary IDE written in Scala that runs in the browser.
- **LeadSheet** A python application that reads a series of chords and generates a musical accompaniment in MIDI. Includes a front-end written in python/flask.
- **Volumetric Display** a 3-D display that achieves depth through the use of a spinning mirror and a single projection (part of a group of 15 people).
- **SNAP (Shared Namespace Application Programming)** A PHP microframework that drastically simplifies AJAX requests by exposing selected PHP functions through an automatically generated javascript API.
- **Erlang-Chat** A multi-client chat server written in Erlang with a client written in Java/Swing.
- **LazyJSON** A lazy JSON parser written in the D programming language.

WORK EXPERIENCE

Engineer Intern   August 2014 - December 2014
Twitter Inc.

- Designed and implemented infrastructure for a new type of ad targeting
- Implemented the ability to preview tweets and cards for several platforms in the browser
- Worked on several Finagle services written in Scala

Platform Intern, KPCB Engineering Fellow   May 2014 - August 2014
Drawbridge Inc.

- Migrated infrastructure for processing charges from MySQL-based architecture to a Kafka-based architecture
- Rewrote and tuned Oozie jobs to run faster and more frequently
- Built out monitoring infrastructure and a visualization tool in Scala

Developer Intern   May 2013 - September 2013
Massdrop Inc.

- Built new interfaces from the ground up to aid in user education and engagement
- Built an internal tool to manage site content and keep track of active shipments
- Assisted redesigning/refactoring site architecture

Web Applications Programmer   May 2012 - May 2013
National Technical Institute for the Deaf at RIT, Rochester, NY

- Built a file repository applications for instructors and students to manage course content
- Maintained several legacy applications including an online sign language dictionary