

**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 and Technology (spring 2013)

**PORTFOLIO**

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

**PROJECTS**

- **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** **MLton Undergraduate Infrastructure Support** January 2015 - Present  
Rochester Institute of Technology

- Refactor LLVM codegenerator for the MLton Standard ML compiler

**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

**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
- Built out monitoring infrastructure and a visualization tool

**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 their course content
- Maintained several legacy applications in ASP classic including an online sign language dictionary