

BENJAMIN S. WEISSMANN

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EDUCATION

Massachusetts Institute of Technology **Cambridge, MA**
Candidate for B.S. in Computer Science; Humanities concentration in Writing. · Cumulative GPA: 4.6/5.0 June 2014

Selected Coursework: Network and Computer Security, Computer Graphics, Computer Vision, User Interface Design, Computer System Engineering, Computer Systems Security, Design and Analysis of Algorithms, Computation Structures, Software Construction, Linear Algebra, Differential Equations, Multivariate Calculus, Discrete Mathematics

RELEVANT EXPERIENCE

MIT Media Lab, Fluid Interfaces Group **Cambridge, MA**
Undergraduate Researcher June 2009 - August 2014

- September 2012 - August 2014: Continued to develop Lens. Supervised several other undergraduates who developed application using Lens. Identified improvements for Lens and made architectural decisions about the framework. Created a Meteor-based backend to analyze collected data real-time and provide a graphical environment for authoring augmented reality content.
- September 2011 - May 2012: Developed Lens, a web-based Javascript framework for creating projected augmented reality application for the LuminAR (<http://fluid.media.mit.edu/people/natan/current/luminar.html>) platform.
- February 2011 - May 2011: Designed and implemented a Python framework to wrap a C++ gesture recognition library.
- June 2010 - August 2010: Developed visualization and data mining tools using Ruby and Java, and designed and created a website using Ruby (Sinatra Framework), HTML, CSS, and Javascript/AJAX.
- June 2009 - August 2009: Worked on Cartagen (<http://cartagen.org>), a dynamic mapping framework, developing user interface components and data structures in Javascript, HTML5, and the Ruby on Rails framework.

Twitter, Revenue Quality Team **San Francisco, CA**
Software Engineering Intern May 2012 - December 2012

- Summer 2012: Architected and implemented Clockwork Raven, an open-source, web-based tool for human-powered data analysis using Mechanical Turk. Developed with Ruby on Rails, the jQuery Javascript framework, and the Bootstrap CSS framework. Used extensively at Twitter to gather tens of thousands of judgments weekly. Website: <http://twitter.github.com/clockworkraven/>. Code: <https://github.com/twitter/clockworkraven/>
- September 2012 - December 2012 (part-time): Continued to support and develop Clockwork Raven as an open-source project and coordinate development with other Twitter engineers.

TripAdvisor, Commerce Team **Newton, MA**
Software Engineering Intern December 2010 - August 2011

- June 2011 - August 2011: Updated advertising budget forecast system to create a real-time calendar to summarize advertising budgets using Ruby on Rails. Restructured internal data structures to allow easy updating of specific parts of the website, including updates to TripAdvisor's main Java codebase, and the Ruby on Rails data manager.
- December 2010 - January 2011: Prototyped a distributed system to predict how changes in advertising configuration would impact clickthrough and sales, running on a small cluster of machines using the Hadoop Map/Reduce framework.

SKILLS

- **Computer Languages:** Extensive experience with Javascript, Ruby, Python, Java, HTML, CSS, Bash, SQL. Limited experience with PHP and C++.
- **Frameworks:** Meteor, Ruby on Rails, Sinatra, Django. jQuery, Prototype. Bootstrap.
- **Operating Systems:** Mac OS X, Ubuntu and Fedora Linux.

PROJECTS

Zephyr Mobile February 2012 - May 2012
• An Android client for the MIT Zephyr messaging system.
• Website: <http://zmobile.mit.edu>. Code: <http://github.com/benweissmann/zephyr-mobile>

RISE: Ruby Interactive Sprite Environment January 2010 - May 2010
• A Ruby visual toolkit based on RubyGame. Generic enough to be used for any sprite- and frame-based application. Simple enough to use with first-time programming students.
• Full code online at <http://github.com/benweissmann/rise>

Additional projects on GitHub (<https://github.com/benweissmann>), including a Doodle clone that uses client-side certificates for authentication and a Rails plugin for simple LDAP authentication.