

# Samuel Balinghasay

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808 Antoinette Lane, Apt L, South San Francisco, CA 94080

## EDUCATION

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**Massachusetts Institute of Technology** September 2009 – February 2013  
*Bachelor of Science in Mathematics with Computer Science, February 2013* GPA: 4.3 / 5.0  
Relevant Coursework: Automata, Computation, and Complexity | Artificial Intelligence  
Design and Analysis of Algorithms | Mobile Application Development | Software Development

## SKILLS

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- Proficient in Ruby on Rails, SQL, HTML/CSS/SASS, JavaScript, jQuery, Git version control
- Familiar with Python, MATLAB, Java, Adobe Creative Suite (Photoshop, Illustrator)

## RECENT PROJECTS

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**Choicer** September 2013  
<http://www.choicer.cc/>

- Live polling web application, built in Backbone.js on top of a Ruby on Rails API layer
- Asynchronously fetches poll results in real time through publisher/subscriber interactions
- Multiple types of data visualizations, rendered on a mobile-friendly responsive user interface

**Github Gist Clone** August 2013  
<http://www.github.com/samuelpmb/gist>

- Github Gist clone, built in Backbone.js on top of a Ruby on Rails API layer
- Features include tagging and dynamic favoriting of gist files and text snippets

## EXPERIENCE

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**Susquehanna International Group** Bala Cynwyd, PA  
*Assistant Trader Intern – Equity Options Desk* June 2012 – August 2012

- Analyzed correlations in volatility among equities through various programming projects
- Created flexible spreadsheet tools to provide options traders with relevant statistical data

**MIT - 6.01, 6.02 (Introduction to EECS I, II)** Cambridge, MA  
*Lab Assistant* September 2010 – May 2011

- Assisted teaching staff in preparations for lab sessions
- Helped students with concepts including error correction, encoding schemes

**MIT Media Lab – Hyperinstruments Group** Cambridge, MA  
*Undergraduate Researcher* June 2010 – September 2010

- Developed original C++ applications for auditory diagnostics of Alzheimer's patients
- Streamed hand gestures/movements to 3D visuals, location-based audio using OpenGL, OSC

## LEADERSHIP

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**MIT Filipino Students Association** January 2010 – January 2012  
*President (2010), Vice President/Treasurer (2011), External Liaison (2012)*

- Coordinated several events each term, (e.g. Filipino Mass and lunch, ~150 in attendance)
- Responsible for securing and allocating budget of \$3000-4000 per year