

# Raphael Gontijo Lopes

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## OBJECTIVE

To obtain a Summer 2015 programming internship. To explore different areas of Computer Science, such as A.I., machine learning, computer vision, web dev, visualization, app dev, etc

## EDUCATION

**Georgia Institute of Technology**, Atlanta, GA, USA August 2014 - May 2018 (expected)  
• Candidate for Bachelor of Science in Computer Science  
**Bernoulli High School**, Belo Horizonte, MG, Brazil February 2012 - December 2013  
• GPA: 91.5% - top 20 in a 300 student class  
• One of the hardest and most demanding schools in Brazil, ranked #1 High School in the national standardized college admissions exams (ENEM) in 2013.

## SKILLS

**Programming Languages:** C, Python, JavaScript (frontend and Node.js), MongoDB, HTML5, Jade, CSS, PHP, SQL, Java

**External Libraries:** express, web.py, jQuery, ncurses, Pygame

**OS Familiarity and preference:** Linux > MacOS > Windows

**Spoken Languages:** English (fluent), Portuguese (fluent / native speaker)

**Software:** Git, PhotoShop, Audacity/GarageBand/LogicPro, iMovie/FinalCutPro

## PROJECTS

**Ludum Dare 30** August 2014  
• Worked in a team to create a game in under 72h, which got ranked #42 out of 1000 for "theme" and top 25% for "innovation".  
• Created the majority of the algorithms facilitating game logic.  
• Designed the game's UI and created all visual graphics.  
• Designed functions for A.I. integration.  
• Playable online - [gtludumdare.github.io/ludum-dare-30/](http://gtludumdare.github.io/ludum-dare-30/)  
• Source - [github.com/GTludumDare/ludum-dare-30](https://github.com/GTludumDare/ludum-dare-30)  
**EnsiColab** June 2014 - Present  
• Social network in Python, web.py and MySQL in which Brazilian teachers can post videos of their lectures to receive/provide feedback to each other.  
• Database design, creation and interface for all website functionality over MySQL.  
• Designed and built all elements of the UI and of the UX.  
• Created the front-end, back-end and all website-user interactions.  
◦ Including login, signup, logout, settings, post, delete post, comment, rendering feed from followed users, etc.  
**2048 For Linux** May - June 2014  
• Recreated from scratch the web and iOS game in C to be played in the linux terminal.  
• replicated the logic of the whole game using only the game itself as a reference.  
• Used ncurses library for ASCII graphics, and file I/O for a simple leaderboard database and save file.  
• Available as ppa - [ppa:raphaelgontijolopes/2048linux](https://ppa.launchpad.net/raphaelgontijolopes/2048linux)  
• Source - [github.com/iRapha/2048linux](https://github.com/iRapha/2048linux)  
**Buzz Bot (our version of Hubot)** July - August 2014  
• Collaborated with with other GATech CS students to develop multiple JavaScript scripts to be run by a Hubot on an online chat group for the Georgia Tech Class of 2018. It responded to commands such as "buzz image <query>" or "buzz /r/dataisbeautiful"  
• Integrated various website APIs for the bot to use, such as reddit and soundcloud.  
• Source - [github.com/mobyvb/slack-buzz](https://github.com/mobyvb/slack-buzz)

## LEADERSHIP/ACTIVITIES

**Model UN** 2011, 2012, 2013  
• Participated in over 3 model UNs, including some in a foreign language (english).  
**Academic Olympiads** 2010 - 2013  
• Brazilian Olympiad of Astronomy and Astrophysics - Bronze and Gold Medal  
• Brazilian Olympiads of Physics - Honorable Mention and Gold Medal  
**Filmmaking, Group Leader/Editor/Director** February - December 2012  
• Directed and edited over 7 short films with a various student groups throughout the year.  
**Active Astronomy, Member** 2011  
• Studied astronomy and practices astronomic photography in a space observatory.

## OTHER

• YoYo-ing, Painting/Drawing, Reading, Video games, TV Shows (Community, Parks&Rec, HIMYM, 30 Rock).