

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, HTML/CSS, PHP, SQL

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

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.
- 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/
- Source - github.com/GTludumDare/ludum-dare-30

Opinee

Winter 2010/11

- Prototype for a social network in PHP and SQL over the winter of 2010/11. Users shared their opinions (like/dislike/why) on a variety of topics.
- Database design, creation and interface for all website functionality over MySQL.
- Designed the UI and all elements of the website visuals.
- Created the front-end and all website-user interactions.
 - Including login, signup, logout, settings, file upload over ftp, post, delete post, comment, follow users, notifications, 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.
- Designed functions for A.I. integration.
- Available as ppa - `ppa:raphaelgontijolopes/2048linux`
- Source - 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

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).