GitHub

bren-a.github.io

Contact Information
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Programming Languages
- Python
- C/C++
- HTML/CSS
- Java
- Lisp
- Haskell
- OCaml
- Prolog

Skills
- Bash Scripting
- UNIX/LINUX
- LaTeX
- MS Office

Languages
- English
- Tagalog
- French

Brendan Alger

Student

Education

University of California, Los Angeles: June 2019
Computer Science and Linguistics

Experience

April 2017 - present: *Programming Intern*
Megamadz Mobile Advertising
Job Details:
- Aided company in transitioning to a digital medium.
  - Implemented a fax to email converter in Javascript using Twilio and Sendgrid API.
  - Doing so decreased the amount of physical documents, incrreasing company organization and productivity.
  - Digitization cut down on material expenses, decreasing overall cost of operation.

Jun 2017 - present: UCLA Recreation
Head Lifeguard, Apr 2018 - present; *Lifeguard*, Jun 2017 - Apr 2018
Job Details:
- Develop and lead employee training exercises once a month.
- Work in small groups during high pressure situations.
- Assess situational risk and manage it accordingly.
- Mediate disputes and listen to the concerns of patrons and staff.
- Observe hundreds of people concurrently and proactively scanning the environment to ensure everyone's safety.

Projects

2019, *Reddit Bot*
Created a bot for social media site Reddit.
Project Details:
- Discovered that Reddit has no simple way to follow posts about a specific topic.
- Solved this problem by creating a program in Python using Reddit's API
  - The API allows easy interaction and data manipulation of Reddit's website.
  - User gives bot a list of subreddits and key words that they want to track.
  - Bot will periodically call the Reddit API and collect data from the given subreddits.
  - Python then parses and filters the data based on the keywords.
  - Bot will then send a message to the user notifying them of the posts.

2018, *Ceasar Cipher*
Designed a program in C++ that can crack a Ceasar Cipher.
Project Details:
- Finds isomorphs using a Dictionary list.
- Saves matches into a hash map to that uses a dynamically allocated array of node pointers to a binary search tree.
  - Shortened insertion and search to O(1) in most cases using a hash map.
  - Uses a binary search tree instead of a linked list to speed up search to O(logN)