CLINTON BURGOS

Website: cfhworld.com, Github: clintburgos

EDUCATION:

The University of Texas at Austin, Austin, TX — Graduating May 2016

Bachelor of Science and Arts: Computer Science
GPA: 3.41

SKILLS:

Programs:	MATLAB, Xcode, R, Ableton Live, Final Cut Pro, After Effects
Frameworks/Tools:	jQuery, Mechanical Turk, Image Magick, Travis CI, Coverage
Languages:	Proficient in Python, Java, PHP, C, HTML, CSS Intermediate in C++, Javascript, Objective-C, Swift, SQL Experience with Ruby

WORK EXPERIENCE

Wayfair Inc, Boston, MA — Jun 2015 – Aug 2015

Engineering Intern

- Created color search for products, including multiple-color searches and percentages of each. Written in PHP, Javascript, HTML, CSS, MSSQL and using Imagick.
- An eyedropper tool to sample colors from product images.
- Bayesian model that predicts the name of a selected color.
- Refactored admin tool for managing missing shipping cost into MVC framework.

Massachusetts General Hospital, Boston, MA — Jun 2009 – Aug 2011

- Published research paper on the quality of Wikipedia articles on medical topics

VOLUNTEER EXPERIENCE

Lewis-Peacock Neuroscience Lab, Austin, TX — Jan 2015 – May 2015

Research Assistant (Programming)

- Java program that normalizes the perceptual mass of a set of images.
- Python script for comparing the semantic relationship of a set of images given a set of human-written descriptions for each, and outputting a visual representation of the scores.
- Created a HIT in Javascript on MTurk to gather descriptions of images, and a custom qualification for the consent page. Also created a version to collect sample descriptions hosted on my website.

Tufts University Neurocognition Lab, Medford, MA — May 2013 - Aug 2013

Research Assistant

- Set up new EEG data processing software EEGLab and ERPLab.
- Researched and utilized several methods of artifact removal.
- Wrote wiki instructions on new software and useful techniques for future researchers.

ACADEMIC PROJECTS

- PintOS projects on implementing virtual memory, a filesystem, a shell, system calls, process management, and more for an operating system (pair programming, team of four).
- Recreation of Netflix's rating prediction algorithm, developed using Coverage for unit and acceptance testing (pair programming, team of two).
- Fibonacci and bubble sort in assembly for Y86 simulator.
- Graph traversal using Dijkstra's algorithm, MST using Prim's algorithm, and A* search.
- Phrase/word/character locator and counter using MapReduce.

PERSONAL PROJECTS (GitHub: clintburgos)

- Game for iOS in which the player creates massive chain reactions of TNT to score points.
- Personal website uses AJAX to load content into the page. It is the most recent iteration of the website that I have been updating almost yearly since 5th grade.
- Genetic algorithm where an equation that reaches the goal number is found through multiple generations, mutations, crossovers, and roulette selection for each round.
- Neural network to guide virtual minesweepers to mine locations.

ACTIVITIES

- Wrote, produced, and performed 4 LP's and 3 EP's (mixture of bands and solo work).
- Led a group of friends to learn and perform 12 original songs in a 2 week time constraint.
- Wrote, filmed, acted in, edited, and made effects for various personal film projects, one of which made it into the DIYDS Film Festival 2013.
- Extensive travel (6 continents), including a solo backpacking trip through Europe, and a study abroad in Botswana (Southern Africa) for environmental research through UT.