CLINTON BURGOS

Website: clintburgos.github.io, GitHub: clintburgos

EDUCATION:

The University of Texas at Austin, Austin, TX — Graduating May 2016
Bachelor of Science and Arts: Computer Science
GPA: 3.46

SKILLS:

Programs:	Xcode, MATLAB, R, SQL Server Management Studio
Frameworks/Tools:	NodeJS, Express, Alamofire, jQuery, Parse, Mechanical Turk, Image Magick, Travis CI, Coverage
Languages:	Proficient in Python, Swift, Java, C, HTML, CSS, SQL Intermediate in PHP, C++, Javascript, Objective-C 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 for query.
- Bayesian model that predicts the name of a selected color.
- Documented in detail my work, experiments, and findings over the course of the project.
- Refactored admin tool for managing missing shipping cost into MVC framework.

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 (and usage documentation).
- 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 an MTurk “HIT” in Javascript 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, sent to friends for test data.

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

- Set up new EEG data processing software EEGLab and ERPLab.
- Researched artifact removal and wrote wiki documentation.

ACADEMIC PROJECTS

- Security exploits including buffer overflows, double free, CSRF, XSS, and SQL injection.
- Website project using AngularJS for frontend, Flask for routing, and PostgreSQL for the database (team of 5).
- 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).
- 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)

- Social location discovery/review app with website component (unfinished, private on GitHub for now).
- 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

- Composing and performing music (4 LP’s and 3 EP’s, 3 bands, solo work).
- Led a group of friends to learn and perform 12 original songs in a 2 week time constraint.
- Film projects (various including DIYDS Film Festival 2013).
- Travel (including study abroad in Botswana for UT environmental research).