

CLINTON BURGOS

Website: clintburgos.com, GitHub: clintburgos

EDUCATION:

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

Aug 2012 – May 2016

SKILLS:

Programs: Xcode, SQL Server Management Studio, R, MATLAB
Frameworks/Tools: Storm, Redis, Rabbit, Jenkins, Kafka, Kibana, GraphQL, NodeJS, Express, Vue, jQuery, Mechanical Turk, Image Magick
Languages: Proficient in Python, Java, PHP, MSSQL, Vertica SQL, C, HTML, CSS
Intermediate in Javascript, Swift
Experience with Ruby, C++, Haskell

WORK EXPERIENCE

Wayfair Inc, Boston, MA Sep 2016 – Present

Software Engineer (Order Processing Platform)

- On-call weeks with responsibility to sign on at any time to fix critical issues, as well as triage non-critical bugs as they are reported.
- Created scripts to generate files from YAML configurations that use GraphQL as part of an abstracted schema layer on top of order data, to support order template creation for testing, debugging, and other purposes.
- Various improvements and fixes to the order processing platform.

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, using HTML5 canvas.
- Bayesian model that predicts the name of a selected color based on previous user input.
- 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.
- 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 some initial 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 instructions.

ACADEMIC PROJECTS

- Security exploits including buffer overflows, double free, CSRF, XSS, and SQL injection.
- Website project using AngularJS for templating, 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 4).
- 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)

- Portfolio website using NodeJS, Vue, and Webpack.
- Coordinate location discovery/review app with website component (unfinished).
- Game for iOS in which the player creates massive chain reactions of TNT to score points.
- 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.

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ACTIVITIES

- Composing and performing music (4 LPs and 3 EPs, 1 live band).
- Music production/mixing/mastering (5 EPs).
- Film projects (various including a short film accepted into DIYDS Film Festival 2013)
- Travel (including study abroad in Botswana for UT environmental research).