CLINTON BURGOS

Website: clintburgos.com, GitHub: clintburgos

EDUCATION:

The University of Texas at Austin, Austin, TX — Aug 2012 – May 2016
Bachelor of Science and Arts: Computer Science (GPA 3.46)

SKILLS:

Programs:	SQL Server Management Studio, Xcode
Packages:	sklearn, numpy, scipy, pandas, matplotlib, imblearn
Frameworks/Tools:	Jupyter Notebook, Flask, Kubernetes, Docker, Storm, Airflow, Redis, Kafka, Rabbit, Jenkins, GitLab CI, Grafana, InfluxDB, Kibana, NodeJS, Express, Vue, jQuery
Languages:	Proficient in Python, Java, PHP, MSSQL, Vertica SQL Intermediate in Javascript, Swift, C Experience with Haskell

WORK EXPERIENCE

Wayfair Inc, Boston, MA — May 2017 – Present
Software Engineer (Predictive Platforms)

- Engineered feature data and utilized a random forest classifier to flag potentially fraudulent orders, achieving a goal of matched performance with Sift Science month-by-month.
- Implemented a Flask app running on a Kubernetes cluster to flag fraudulent orders in realtime.
- Investigated discrepancies between training data and realtime data, creating monitoring around performance.

Wayfair Inc, Boston, MA — Sep 2016 – May 2017
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.

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 initial samples of descriptions, hosted on my website.

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).
- 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).
- 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 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).