Jonathan Silverman

Computer Science Major, Biology Minor

EXPERIENCE

Conduent Inc. Newark, NJ — *QA Intern*

Summer 2017

Assisted in the development and launch process of the New Jersey EZ-Pass website and IVR. Participated in code reviews, daily meetings with the dev team and user pre-production testing.

Reference: frank.mcelroy@conduent.com

Paylock Inc. Somerville, NJ — *Temporary Manager*

June 2013 - August 2013, May 2014- June 2014, June 2016 - September 2016

Worked as the manager of a small sub company of Paylock(IPT LLC) handled the sale of products to individuals, companies and municipalities. This included product acquisition from the manufacturer, order fulfillment, and customer service via phone and email.

Reference: cjaramillo@paylock.com

CONTACT INFO

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SKILLS

Languages: Python, Java, Kotlin, C, JavaScript, JQUERY, HTML, ATS, SQL, PHP, PIG

Frameworks: Django, Flask, Android Studio, MySQL, SQLITE, Hadoop

Products: Excel, Powerpoint, Word, Access, Visio, Jira, Siebel

EDUCATION

Boston University, Boston MA — B.A. *Computer Science*

Biology Minor
Septermber 2014 - 2018

Highlighted courses: CS 350 (Computer Systems): A class teaching the concepts of computer systems, including multithreading, semaphores, queuing systems, and hadoop mapreduce.

CS 320 (Concepts in Programming Languages): A course teaching the fundamentals of ML languages through the use of ATS.

CS 562 (Advanced Databases): A course focusing on efficient query processing and indexing techniques for spatial, temporal and multimedia databases. As well as cloud storage, distributed systems, NoSQL and security.

CS 591 (Data Mechanics in Pervasive Urban Analysis), CS 492 (SPARK! Product Development Lab), CS506(Tools of Data Science)

PROJECTS

Partitioning and Comparing Regions Of Crime with Regions Of Environmental Investment in Boston

A research project using Python and MongoDB to analyze the correlation between Government funded environmental assets such as charging stations, open spaces, and hubway stations and crime in the city of Boston. To achieve this goal we took geodata from these data points, split the map into cells, taking the count for each cell. Then we ran a multiple regression using the variables in each cell, and finally to get a more granular idea of the correlation we performed K means correlation on the individual variables, and compared them using a RAND Index.

Social Disaster

A web app written in Flask utilizing Natural Language Processing techniques such as chunking and part of speech tagging in order to find the location that incoming tweets are referencing. Finally I used a reverse geocoding API to visualize the tweets on an interactive map. The goal of this application was to provide quick and easy access to location specific information for victims of natural disasters; as such, the app was tested using tweets from Hurricane Harvey.