MELVIN CANELA
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Education

School: City College of the City University of New York **Jun 2016**
Degree: Bachelor of Science in Applied Mathematics and a minor in Computer Science

Skills

Technical Skills:

Programming Languages: HTML • CSS • JavaScript • Python • SQL
Frameworks/Libraries: React • Angular • Node • SciPy • Django
Developer Tools: GIT • Gulp • Webpack • Linux Command Line

Work Experience

Software Consultant at Homer Logistics Inc. New York, NY **Mar 2016 – Apr 2016**

Developed a web application that displayed the company's delivery fleet information in real time. Also applied performance updates and expanded functionality to the analytical tool that I developed during my internship at Homer.

- Discussed, analyzed, and strategized design details with CEO.
- Deployed web application in collaboration with Developers using Agile methodologies.
- Performed rigorous unit and data interface testing.

Software Developer Intern at Homer Logistics Inc. New York, NY **Sept 2015 – Dec 2015**

I was assigned the task of developing an analytical tool that investigated the geographical coordinate data of Homer's delivery fleet to detect and report DOT (Department of Transportation) violations.

- Performed topological research on Manhattan and explored various geospatial algorithms such as the Haversine formula to accompany solution.
- Developed the front end utilizing open source software such as D3.js to display data.
- Documented code with comments and recorded updates in patch notes.

Side Projects

Title: MTA Transit Live Feed Interface **Sept 2016 – Present**
Using MTA's (Metropolitan Transportation Authority) live feed data, I am constructing a predictive model that simulates and visualizes the location of the trains in real-time.

- Developed a restful API endpoint and utilized web sockets to deliver real time updates.
- Constructed a seamless workflow architecture with Webpack and Gulp.

Title: Santa's Stolen Sleigh - A Kaggle.com competition provided by FICO **Dec 2015 – Jan 2016**
Objective: With a list of gifts and their respective weights and destinations, find the most efficient routes and cargo size for Santa Clause to deliver his presents on his sleigh.

- Applied the agglomerative hierarchical clustering algorithm to group geospatial data points.
- Used a greedy nearest neighbor algorithm with 2 opt swap to find the local minimum distance to travel.
- Utilized Python as the scripting language and PostgreSQL as the database management tool.
- Scored above the 80th Percentile.