RUBIN TRAILOR

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github.com/rmtrailor

Education

University of San Francisco, San Francisco, CA *Aug. 2013 – May 2017*

- B.Sc. Computer Science candidate with a minor in Mathematics
- Major GPA: 3.91
- Dean's List: 2013, 2014, 2015, 2016

Skills

Experienced Languages: Java, JavaScript, Python, HTML5, CSS3
Familiar Languages: C, C++
Frameworks/Libraries/Tools: D3.js, React, Redux, MySQL, Git, SVN

Work Experience

Software Engineer Intern – CA Technologies, Santa Clara, CA *Dec. 2016 – Present*

- Worked on the frontend side of a web application using React and Redux.
- Work was focused on communication implementations with the backend of the application.

Teaching Assistant – University of San Francisco, San Francisco, CA *Aug. 2015 – Dec. 2016*

- Grading, tutoring, and assisting the professor during class periods. Tutored Java and Python.

Research Assistant – University of San Francisco, San Francisco, CA *Dec. 2015 – Feb. 2016*

- Research on focus and context visualization. Used Android SDK for tablet application and C++ for desktop version.

Projects

Search Engine

- Used an inverted index and TF-IDF scoring to store and rank searches.
- Had user account support using a database with MySQL to save user information.
- Java back-end that had a multi-threaded web crawler to analyze web pages for the search query.
- Test-driven development using the JUnit framework.

Barclay's Premier League Visual Analysis

- Web page that visualized the performance of the different teams in the Barclay's Premier League for the 2015-2016 season using JavaScript and D3.js.
- Four visualization techniques used for performance analysis: heatmap, normalized stacked bar chart, parallel coordinates, and a bubble chart.

Visualizations on Tree Maintenance Calls in San Francisco

- Visualized San Francisco 311 Tree Maintenance Calls public dataset using JavaScript and D3.js.
- Parsed GeoJSON data to create a choropleth map of San Francisco and placed color-coded symbols on the map for each maintenance call.
- Interactive Features: Tooltips when hovering over symbols or neighborhood areas, and radio buttons to filter the display of symbol groups.