contact@rubintrailor.com
www.rubintrailor.com
github.com/rmtrailor

RUBIN TRAILOR

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 / 4.00
- Dean's List: 2013, 2014, 2015, 2016

SKILLS

Experienced Languages: Java, JavaScript w/ JQuery, Python, HTML5, CSS3
Frameworks/Libraries/Tools: Node, Express, React, D3, MySQL, Git

WORK EXPERIENCE

Software Engineer Intern **CA Technologies** *Dec. 2016 - Present*

- Focused on the frontend side of a web application using React and Redux.
- Worked on communication implementations with the backend of the application and UI design.
- Developed user action and data sharing techniques across geographically-diverse clients.
- Implemented data visualization components into the application using D3.js.

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

- Graded, tutored, and assisted the professor during class periods. Tutored Java and Python.

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

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

PROJECTS

Interview Tool

- Created an internal web application for a company which included a frontend application written in React and a backend server written in Node with Express.
- Worked on the backend where I architected and implemented a RESTful API, and designed and created the MySQL database.
- Wrote API documentation to keep frontend team up to date with new API features, and to detail expected request and response formats.

Messaging Service

- Created a replicated, fault tolerant data storage system for a messaging application using Java.
- Implemented strong consistency using a passive replication scheme where a primary server received all requests, and then replicated data to one or more secondary servers.
- Developed a mechanism for determining whether/when the primary replica had failed, and implemented a bully algorithm for election of a new primary replica.

Barclay's Premier League Visual Analysis *rubintrailor.com/portfolio/premier-league-analysis*

- Created a 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.
- Implemented interactive visualizations for performance analysis such as a heatmap, normalized stacked bar chart, parallel coordinates, and a bubble chart.
- Designed an algorithm to compare the performance of two teams against each other.