Hong Wang

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OBJECTIVE

I am a dedicated graduate student who is looking for a software developer summer internship. I am capable of both front-end and back-end web development.

EDUCATION

Computer Science, (PhD Student)
Arizona State University (2013-Current)
Adviser: Ross Maciejewski
Computer Science, B.S.
University of Nevada, Las Vegas (2008-2013)

SKILL HIGHLIGHTS

Javascript, Java, C/C++, Matlab, R, HTML, CSS, JQuery, D3.js, NodeJS, Tomcat, Jersey, MongoDB, Postgres SQL, MySQL, Git, Eclipse, Visual Studio, Linux, Latex.

PROJECTS

Project demos can be found at http://www.public.asu.edu/~hxwang/

Annotating media topics with semantically linked events

- Work in a team of two developers to build a web-based application.
- Searching and annotating documents based on keywords selected from another dataset.
- Used WordNet similarity, and implemented a hierarchical clustering method to group semantically related words.
- Used a force directed layout to display the clusterings and allow multiple interactions on the layout.
- Display and annotate selected documents on the timeline.
- **Technology Used**: *HTML, Javascript, D3.js, MongoDB, Tomcat, Java*

Exploratory Visual Analysis for Global Trade Networks

- Work in a team of three developers to build a web-based application.
- Calculated local network properties (triad profile, clustering coefficient) for each country and compare them by plotting hierarchical clustering dendogram and matrix view.
- Detect sudden changes of network properties of each country and highlight them.
- **Technology Used:** *HTML, Javascript, D3.js, MySQL, Tomcat, Java*

Visualizing Attitude toward Dairy Products in Social Media

- Implemented a word tree layout to allow user detect frequently mentioned phrases in twitter.
- Plot distribution of keyword phrases and sentiment on maps.
- **Technology Used**: *HTML, Javascript, D3.js, PostgreSQL, Tomcat, Java*

Visualizing Topical Trends in Social Media

- Use LDA topic model to extract topics from twitter texts and plot topic distribution over time.
- Detect and highlight anomalous events on the timeline.
- **Technology Used**: *HTML, Javascript, D3.js, MongoDB, Tomcat, Java*

SIDE PROJECTS

Comparing Universities by Graduating Rate and Pell Grant Rate

- Compare different universities by plotting the percent of students who graduate in four years against the percent of students who receive Pell Grant
- **Technology Used**: *HTML, Javascript, D3.js, NodeJS*

A Simple Javascript Library for Clustering

- Performs hierarchical clustering, kmean clustering, and Girvan Newman network clustering
- Can be found at https://github.com/kenns29/dmjs/

EXPERIENCE

Research Assistant
Arizona State University, Tempe, AZ (2014-Current)
Teaching Assistant
Intro to Programming in C++
Arizona State University, Tempe, AZ (2013-2014)