Ruimin Gao

Data Visualization engineer

I am a passionate and devoted Data Visualization Engineer, proficient in both web development and UI/UX design. My specialization is building UI, web application and creating data visualization.

Experience

2017.05 -2017.08

Data Visualization Engineer - Intern

Autodesk, San Francisco, CA

Customer Success Visualization https://va.tech.purdue.edu/ravengao/customerVis.pdf

- Created Proof-of-concept visualization system prototype for Customer Success Metrics, conducted user research with metric owners and potential user group. Built prototype with Sketch and Highcharts.
- Worked as front-end developer, coordinating with data engineers and designers to build both UI components and visualization for enterprise visualization dashboard. Visualization developed with Highcharts. Version control with Git.
- Familiar with Agile Scrum model.

HTML5/CSS/JS Highcharts Sketch

2015.08 -2017.05

Research Assistant

DataVis Lab, Purdue University, IN

Career Mapping https://va.tech.purdue.edu/lilly/career_mapping.php

- Built an interactive web system: multi-Dimensional flow data mining and visualization. This project is sponsored by Eli Lilly Inc. and is cooperating with local education departments for college/career planning.
- The system is now in beta test for higher division curriculum of local high schools, and have more than 1k users (high school counselors and students).
- Dataset has 50 tables and 100k+ entries across versions. Version control with Git.

HTML5/CSS/JS D3.is PHP MySQL

Discriminate Patterns https://github.com/ravengao/Discriminate-Patterns

- Built a web visualization application: analyze patterns and network in a large-scale dataset. This project is provided by Medicine company Eli Lilly Inc.. The goal is to increase the probability of active compound in random trials.
- Worked on visualizing association rules in medical compound mining. The dataset contains more than 3 million data entries. Improved algorithm of pattern processing. Calculating speed was increased by 70% in average.

HTML5/CSS/JS D3.js Echarts Python Flask Pandas

2014.04 -2015.05

Student Researcher

Tianjin University, China

Crime Case Analysis https://web.ics.purdue.edu/~gao338/VASTChallenge2014.html

- IEEE VIS 2014 Award: Honorable Mention for Effective Use of Coordinated visualization.
- Presented the project in a global conference as student speaker.
- Analyzed textual data, social network, and structural evolution. Use Python to develop Text summarization, filtering and searching algorithms to process 2k documents data.

HTML5/CSS/JS D3.js Highcharts Python

Education

MS, Computer Graphics Technology 2015 08 -

Purdue University, IN

2018.02

GPA: 3.9

Specialization: Data visualization and web development

Thesis: Visualizing patterns and networks in large-scale compound dataset

2011.08 -

BS, Software Engineering

2015.06 GPA: 3.6 Tianjin University, China

Personal info

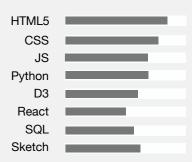
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Portfolio (+projects)

https://va.tech.purdue.edu/ravengao/

Skills



Proficient in Javascript, HTML5, CSS. Familiar with ES6, SASS. 3-year experience of front-end development with data visualization libraries like D3.js, Highcharts, Echarts,

Familiar with web framework React, Redux, Node.is and technologies like RESTful APIs, Ajax. Also have experience with python web Framework Flask.

Excellent in Python

programming, fluent with Pandas and scikit-learn. Proven knowledge in basic data mining and machine learning.

Proven knowledge of relational database and NoSQL database. Familiar with SQL based query language and MongoDB.

Solid **UX** skills. Proficient in design and prototype with Sketch. Proven knowledge of user research process, usability test and product evaluation.