Richard Feng

SOFTWARE ENGINEER · DATA ANALYST · UNDERGRADUATE RESEARCHER

☐ +1 (262) 366-6718 | ✉ richard.z.feng@gmail.com | 🏠 rzfeng.github.io | ⬡ rzfeng | in rzfeng

Education

University of Wisconsin, Madison   *Graduation: May 2019*
DOUBLE MAJOR: B.S. IN **COMPUTER SCIENCE** AND **STATISTICS**
MINOR: **MATHEMATICS**

Skills

- **Experienced:** Python, Java, R
- **Proficient:** SQL, Julia, C, JavaScript, Scala
- Mandarin Chinese - Full working proficiency
- **Technology/Frameworks:** Kafka, Pandas, Numpy, Scikit-learn, PostgreSQL, Kubernetes, Docker, AWS, Spring Boot, Unix/Linux, Git

Experience

Quad/Graphics   *Sussex, WI*
DATA ANALYST INTERN   *September 2018 - Present*
- Predicting seasonal trends of business operations using time series forecasting and optimization (*R*)
    - Forecasting manufacturing sales revenue with only 3% mean absolute percentage error
    - Incorporating vast amounts of macroeconomic data as external regressors through web scraping
- Proposing methods to reduce business expenses and streamline business operations (*Python, R*)
    - Utilizing Scikit-learn, Pandas, and Numpy to build predictive models
    - Multivariate analysis and intuitive visualizations (Principal Component Analysis, Multidimensional Scaling, Cluster Analysis, etc.)

Target Corporation   *Minneapolis, MN*
SOFTWARE ENGINEERING INTERN (BACK-END)   *June 2018 - August 2018*
- Increased reliability of the inventory analysis system by analyzing and processing data pipelines (*Scala*)
    - Utilized Kafka, PostgreSQL, REST APIs, Docker
- Built infrastructure for robust and scalable system to better handle Spark jobs crashing (*Java, Bash*)
    - Utilized Kubernetes, Spring Boot, Jenkins, Grafana, Slack API

Undergraduate Research, Scalable Systems Lab (Prof. Victor Zavala)   *Madison, WI*
SOFTWARE DEVELOPER (FULL-STACK)   *January 2018 - December 2018*
- Developed data visualizations for a project that creates graph-based models for optimization problems
- Constructed large hypergraphs efficiently in a psuedo-bipartite format and an 0/1 matrix format (*Julia*)

Avid Ratings   *Madison, WI*
SOFTWARE DEVELOPMENT INTERN (FULL-STACK)   *May 2017 - August 2017*
- Designed and developed GoSurvey page for customers to upload confidential user forms (*Angular*)
- Implemented login pages securely, handling authorization tokens to restrict user access (*Angular*)
- Processed client voicemails into text and created automated responses (*Python*)

Personal Projects

Stock Rank/Forecaster (R, Python, AWS)
- Allows user to search a stock and displays stock information and rankings from various credible sources
- Interactive graphs and charts forecasting future stock trends

Epsilon AutoCheckout (Javascript, Python, AWS, Firebase)
- Chrome extension that authenticates users using Firebase, then auto-clicks/auto-fills to quickly purchase item
- In progress of implementing stricter user login/restriction for monetized distribution

UW Course Grade Distribution Search (Python, SQL)
- Web app utilizing a custom made database allowing users to search the grade distribution of a course from UW
- Created database from parsing pdf files, implemented preventions against SQL injection attacks

To interact these and other projects: *rzfeng.github.io*

Leadership Experience

Chess Club UW   *Madison, WI*
FOUNDER/PRESIDENT   *Fall 2015 - Present*
- Recruited 100+ active members since establishment
- Solicit meetings and tournaments for the members

Undergraduate Statistics Club   *Madison, WI*
VICE PRESIDENT/WEBMASTER   *Fall 2016 - Present*
- Organize tournaments to analyze Kaggle datasets (UW Data Challenge) and improve student faculty relations
- Manage the multiple club websites

Kappa Eta Kappa   *Madison, WI*
HEAD PUBLICITY CHAIR   *Spring 2016 - Spring 2018*
- Organize publicity and outreach events to recruit new members