

# Richard Feng

SOFTWARE ENGINEER · DATA ANALYST · UNDERGRADUATE RESEARCHER

☎ +1 (262) 366-6718 | ✉ richard.z.feng@gmail.com | 🏠 rzfeng.github.io | 📱 rzfeng | 🌐 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, C, JavaScript, Scala, JuliaLang
- Mandarin Chinese - Full working proficiency
- **Technology/Frameworks:** Kafka, PostgreSQL, Kubernetes, Jenkins, Docker, AWS, Firebase, Spring Boot, Angular, Unix/Linux, Git

## Experience

### Quad/Graphics

Sussex, WI

DATA ANALYST

August 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
- Cleaning, validating, and analyzing large sets of data to extract relevant information
  - Minimizing Bayesian and Akaike information criterion to choose parameters for accurate statistical models
  - Incorporating vast amounts of macroeconomic data as external regressors through web scraping

### 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 - Present

- Developing data visualizations for a project that creates graph-based models for optimization problems
- Constructing large hypergraphs efficiently in a pseudo-bipartite format and an 0/1 matrix format (JuliaLang)

### 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

- 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

- 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

- 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](https://github.com/rzfeng)

## 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