

Richard Feng

SOFTWARE ENGINEER · DATA ANALYST · UNDERGRADUATE RESEARCHER

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Education

University of Wisconsin, Madison

DOUBLE MAJOR: B.S. IN **COMPUTER SCIENCE** AND **STATISTICS**

MINOR: **MATHEMATICS**

Graduation: May 2019

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

DATA ANALYST

Sussex, WI

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
 - Incorporating vast amounts of macroeconomic data as external regressors through web scraping
- Proposing methods to reduce business expenses and streamline business operations based on data analysis and research (Python)
 - Utilizing Scikit-learn, Pandas, and Numpy to build predictive models and seek correlations between various data sets

Target Corporation

SOFTWARE ENGINEERING INTERN (BACK-END)

Minneapolis, MN

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)

SOFTWARE DEVELOPER (FULL-STACK)

Madison, WI

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 (Julia)

Avid Ratings

SOFTWARE DEVELOPMENT INTERN (FULL-STACK)

Madison, WI

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

Leadership Experience

Chess Club UW

FOUNDER/PRESIDENT

Madison, WI

Fall 2015 - Present

- Recruited 100+ active members since establishment
- Solicit meetings and tournaments for the members

Undergraduate Statistics Club

VICE PRESIDENT/WEBMASTER

Madison, WI

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

HEAD PUBLICITY CHAIR

Madison, WI

Spring 2016 - Spring 2018

- Organize publicity and outreach events to recruit new members