Richard Feng

SOFTWARE ENGINEER · DATA ANALYST · UNDERGRADUATE RESEARCHER

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Education

University of Wisconsin, Madison *Graduation: May 2019*

DOUBLE MAJOR: B.S. IN **COMPUTER SCIENCE** AND **STATISTICS**
MINOR: **MATHEMATICS**
GPA: 3.2/4.0

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 psuedo-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*

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