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Education

University of Wisconsin - Madison

Madison, WI

B.S. IN COMPUTER SCIENCE AND STATISTICS. GPA: 3.3/4.0

Jan. 2016 - Dec. 2019

• Relevant Coursework: Algorithm, Data Structures, Software Engineering, Database, Computer Graphics

Skills

Languages Java • Python • SQL • JavaScript ES6 • HTML • CSS • C/C++

Tools Git • MySQL • Spring Boot • Vue.js • Postman • Scrapy

Work Experience

UW-Madison (HelpCare Connect Lab)

Madison, WI

FULL STACK SOFTWARE DEVELOPER

Aug. 2018 - May. 2019

- Designed and deployed back end **RESTful APIs** by teaching myself **PHP** to perform CRUD functions.
- · Refactored the codebase to improve maintainability, optimizing query operations by adding index to enhance range search.
- · Implemented a Naive Bayes model in Python to predict psychological risk and achieved 82% accuracy.

CUNA Mutual Group Madison, WI

DATA SCIENCE INTERN

May. 2018 - Aug. 2018

- · Created an internal dashboard that was adopted by managers to visualize results from sentiment analysis.
- Implemented a GBDT model to predict the severity of insurance claims and reduced MSE by 15%.
- Performed feature engineering on large data sets in **Spark** to facilitate the development of statistical models.

Projects _____

PM Tool (https://fzpmtool.herokuapp.com)

Madison

INDIVIDUAL PROJECT

Jun. 2019 - Jul. 2019

- · Developed a project management application using Java and Spring Boot that allows users to easily create and manage ongoing projects by categorizing priority.
- · Designed RESTful Web Services and incorporated persistent data storage with MySQL to retrieve projects.
- Integrated **Spring Security** and **JWT Web Token** to validate the user's authentication.

Post Wall (https://geo-postwall.firebaseapp.com)

Madison

INDIVIDUAL PROJECT

INDIVIDUAL PROJECT

Jul. 2019 - Jul. 2019

Jul. 2019 - Jul. 2019

- · Implemented a dynamic single page web application that enables users to share their stories with other users through a map.
- Designed the front end using **Vue.js** and **JavaScript** to stylize the app and manage states.
- Integrated Google Map API directly into the app to mark users' locations after logging in.
- Developed the back end system in **Firebase** to authenticate users and show comments in real-time.

Web Crawler Madison

• Implemented an incremental web crawler that scrape books information with **Scrapy** and **Python**.

- Applied the Bloom Filter to optimize duplicate content detection using Redis Bloom DupeFilter.
- Enabled massive data storage in a non-relational database MongoDB.