Tonglu (Remi) Yang

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EDUCATION

University of Wisconsin-Madison **Sep 2021 – 2023**

Bachelor of Science, Computer Science **Madison, Wisconsin**

- Academics: GPA 3.91/4.00, Fall 2021, Spring 2022 in Dean's List
- Selected Coursework: Algorithm and Data Structure, Machine Learning, Operating Systems, Artificial Intelligence

Macau University of Science and Technology **Sep 2019 – Jun 2021**

Bachelor of Business Administration, Accounting **Macau**

SKILLS

- Programming Languages: Java, C/C++, C#, Python, R, SQL, Swift, PHP, Go, JavaScript, TypeScript
- Frontend Development: React, Node.js, JavaScript, HTML, CSS, Bootstrap, AngularJS
- Backend Development: MySQL, MongoDB, Flask, SQLite, JSON, MVC
- Tools and Platforms: Git, GitHub Actions, Azure (App Service, Functions), Linux, MS Visual Studio

EXPERIENCE

UW-Madison, Wisconsin Athletics - Digital Platforms, Data, and Cloud Team **Apr 2022 – Present**

Full Stack Student Developer **Madison**

Frontend Project – BadgerSelect

- Updated the site from Bootstrap 3 to Bootstrap 5 in MVC framework using HTML, CSS, C#, JSON, JavaScript with NPM JavaScript packages to improve the server response time and make the website more readable and responsive

Backend Project – Access Students' Data to Calm for Business (An Application)

- Decrypted files and processed data, obtained file metadata, and inserted the data into Microsoft SQL Server
- Utilized Application Insights to provide application performance management in MVC framework
- Assessed the reliability of the application by building unit tests and fully tested the functionalities to provide analysis results

UW-Madison, Department of Computer Sciences **Jan 2022 – May 2022**

WISCERS Research Fellow **Madison**

- Conducted research on machine learning using R & Python to predict gene regulatory network with graphic models such as Bayesian networks; carefully and successfully tested with the gene network system
- Engaged in weekly meetings with graduate students and professors to gain exposure to computer science research

UW-Madison, GUTS - Greater University Tutoring Service **Jan 2022 – May 2022**

Math and Computer Science Tutor **Madison**

- Tutored and assisted 6 college students in Calculus and Computer Science to improve tutees' grades to A
- Wrote and created Calculus problems based on tutees' skill level to meet their goals identified in student's study plans

TEDxMacauUST **Sep 2019 – May 2021**

Vice President of Academic Department **Macau**

- Managed a 30-student team to communicate with 20+ speakers and successfully organized 2 TEDx events
- Facilitated communication with 100+ members and engagement with 10+ sponsors by organizing conversation sessions

PROJECTS

Facial Emotion Prediction: Designed a linear classifier that uses the weight's features to predict whether the emotion displayed on a face image is happy or angry by using Python and linear algebra

Mini Memory Allocator: Remodeled the function heap-memory function calls malloc(), calloc(), realloc(), and free() in the Linux Documentation by using C, Valgrind, GDB; strategies used were Free Lists, Block Splitting, and Memory Coalescing