Yizheng Shi

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EDUCATION

UNIVERSITY OF WISCONSIN-MADISON

BS in Computer Science/Data Science
2020/09 - 2023/05
Cum. GPA: 4.0
Deans List {All Semesters}

LINKS

linkedIn.com/in/ **yizhengshi**
yizhengshi.github.io/ **my-web**
github.com/ **yizhengshi**

COURSEWORK

UNDERGRADUATE

- Computer Programming I/II/III
- Discrete Mathematics
- Linear Algebra
- Data Structures & Algorithm
- Operating System
- Computer System & Organization
- Computer Vision
- Database Management System
- Artificial Intelligence
- Matrix Methods in Machine Learning
- Data Science Modeling I
- Data programming
- Calculus I/II/III
- Physics I/II

Senior Year Coursework
- Computer Networking
- Linear Optimization
- Artificial Neural Networks
- Probability and Mathematical Statistics

SKILLS

TECHNICAL

Java• JavaScript• C
C++ • Python • React
Familiar:
Python • Java • C
OS Experience
Ubuntu 19.04 (Personal) • Mac OS X
Monterey • Windows

EXPERIENCE

UW-MADISON CS DEPARTMENT | Peer Mentor
September 2022 – December 2022 | Madison, WI
- Peer mentor for CS577 Introduction to Algorithm, supervised by Marc Renault.
- Held office hours and review session to consolidate students' understanding of course concept and cultivate innovative mindsets

GOOGLE KAGGLE | Participant
July 2022 – Present | Virtual
- Set up Neural Network with Gausian Nnoisy layer to increase model accuracy
- Data analysis and visualization using pandas and seaborn

UW CYBERSECURITY AND CODE FOR ONE | Selected Member
September 2021 – Present | Madison, WI
- Improved and developed features of "Coding for Good's" website.
- Participate weekly discussion about NSA codebreaker and hack the box

RESEARCH & PROJECTS

SARS-COV-2 PATTERN RECOGNITION | Undergrad Researcher
May 2022 – Present | Madison, WI
- Advised by Professor John Yin and Nan Jiang (phD) in John Yin's lab
- Currently focused on Machine Learning technique to find relationship between Reduced Subgenomic RNA Expression pattern and the potential Asymptomatic SARS-CoV-2 Infection

GEANT4 CANCER SIMULATION | Undergrad Researcher
May 2022 – Present | Virtual
- Supervised by Professor Mariela A. Porras-Chaverri in FIMEC Computational Medical Physics Lab
- Use computer image analysis in mammography to determine individual breast anatomical characteristics
- Use Geant4 toolkit to quantify scatter radiation in computer tomography (CT), particularly in image analysis and radiation transport simulation

ONLINE DELIVERY APP | Developer
January 2022| Madison, WI
- Independent project
- Use React and Node.js. to develop a server-side and front-side food deliver app called Kitchen Pandas

RECOGNITIONS

2020 - 2022	Honors in Undergraduate Research Fellow
2020 - 2022	Distinction in Major in Computer Science
2020 - 2022	Dean List for consecutive 3 years
2022	Kaggle Titanic top 10%