

# Wenqing Zhang

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in Ethan Zhang  
WZhang

## Education

### Washington University in St. Louis MS in Data Analytics and Statistics

GPA: 4.0/4.0

St. Louis, USA  
08/2023-12/2024

> Core Courses: Optimization, Statistics, Data Science, Data Mining, Cloud Computing, Machine Learning

### Master of Information System Management

GPA: 4.0/4.0

08/2023-12/2024

> Core Courses: IT Architecture & Infrastructure, IT Governance, Data & Risk Management, Cybersecurity

### The University of Sheffield

#### BS in Computer Science

GPA: 3.46/4.0

Sheffield, UK  
09/2020-06/2023

> Core Courses: Algorithms and Data Structures, Devices and Networks, Robotics, Testing, Reinforce Learning

### Chinese University of Petroleum

#### BE in Petroleum Engineering

Beijing, China  
09/2018-06/2020

> Core Courses: Advanced Math, Mechanics, Chemistry, Geology, Reservoir Petrophysics, Information Security

## Publications

Haohuan Li & Wenqing Zhang, "Cat face recognition using Siamese network," Proc. SPIE 12456, International Conference on Artificial Intelligence and Intelligent Information Processing (AIIIP 2022), 124562U (30 November 2022); <https://doi.org/10.1117/12.2659645>

## Experience

### Hefei Wutong Wood Technology Co, Ltd.

Intern Back-End Developer, R&D Department

May.2022 – Sep.2022  
Hefei, China

- > Contributed as a supportive team member in the development of a merchant food delivery system, utilizing Java, Maven, and WebSocket technologies to successfully implement message push functions and participated in the development of several key APIs.
- > Engaged in the development of a news website project, focusing on microservices development using the Spring framework. Actively involved in automating code deployment and containerization with Jenkins and Docker tools, enhancing development efficiency and system stability.

### Shanghai HeSheng Machinery Co, Ltd.

Intern Software Engineer, Information Center

Jun.2021 – Sep.2021  
Shanghai, China

- > Contributed to the development of product showcase web pages using front-end technologies like HTML, CSS, JavaScript, and jQuery, supplemented with Bootstrap framework and Photoshop tools.
- > Designed and implemented a variety of interactive elements such as Sliders to enhance user browsing experience, Accordions to effectively save page space, and Masonry Layout to boost the website's visual appeal.
- > Actively participated in requirement analysis within the team, collaborated in code development, and maintained and optimized existing products, ensuring high quality and continuous improvement of the project.

### The University of Sheffield

Teaching Assistant for COM006 Devices and Network

Sep.2022 – Mar.2023  
Sheffield, UK

› Supervisor: Dr. Mike Stannett & Dr. Mark Stevenson & Dr. Paul Watton

## The University of Sheffield

Teaching Assistant for COM1002 Foundation of Computer Science

Sep.2022 – Jun.2023

Sheffield, UK

› Supervisor: Dr. Prosanta Gope

## Duke University

Research Assistant

Dec.2021 – Mar.2022

Remote

- › Supervisor: Prof. Rabih Younes
- › Developed and built an automated annotation API, successfully creating a diverse dataset comprising over 200,000 images of 20 different types of animal faces.
- › Participated in research on computer vision algorithms including image segmentation and depth detection. Applied VGG16 and Siamese networks for classification and achieved a high accuracy rate of 99.5% on the dataset.

## Projects

### Takeaway Ordering System

Jan.2023 - May.2023

- › Modular project construction is implemented using Maven to ensure separate development and deployment of front-end and back-end. The front-end is developed using modern JavaScript frameworks for dynamic interface, while the back-end is built on Spring Boot for efficient server-side processing.
- › Nginx is used as a reverse proxy server for load balancing, enhancing system access speed and reliability. Spring Cache is employed as a lightweight caching framework to optimize data access efficiency, in conjunction with Spring Task for automated scheduled task processing.
- › Real-time order status updates and user communication are enabled through WebSocket, enhancing user experience. Swagger is used to build automated API documentation, facilitating interface testing and collaborative development between front-end and back-end.

### Kestrel Project - Visual Automatic Landing System

Image Recognition, Avionics Group, The University of Sheffield

May.2022 - Jun.2023

Sheffield, UK

- › Supervisor: Dr. William Brookes
- › Participated in the development of a drone image recognition system, responsible for designing image recognition algorithms and data interfaces to facilitate effective transmission of coordinate data. Utilized annotated terrain datasets to construct datasets, and employed lightweight YoloV5 and DeepSORT algorithms for object detection and tracking.
- › Implemented optimization strategies on the Raspberry Pi 4 development board, such as reducing input image resolution and using multi-threading processing. Successfully enhanced recognition speed to approximately 30 frames per second, meeting the requirements for real-time tracking of beacons by drones.

## Skills

Python, Java, C++, PHP, JavaScript, TypeScript, Ruby, Haskell, SQL, Pytorch, Tensorflow, Airflow, Tableau  
HTML, CSS, JQuery, Ajax, Node.js, Vue.js, React.js, Maven, Mybatis, SpringBoot, Zookeeper, Docker, Git, Linux

## Activities

### President

Programming Society, CSSA, TUOS

Nov.2021 - Jun.2023

Sheffield, UK

- > Founded and developed the club with 230 members.
- > Organized over ten activities such as personal website construction, Python aircraft war game, Java backgammon game, etc.

### **Peer Mentor**

Nov.2021 - Jun.2023

*Department of Computer Science, TUOS*

*Sheffield, UK*

- > Provided support for new undergraduates and postgraduate students, connecting with eight mentees.

### **Student Ambassador**

Aug.2022 - Jun.2023

*Department of Computer Science, TUOS*

*Sheffield, UK*

- > Organized activities such as the Lego Robotics Programming Contest, the Raspberry Pi badge programming event, etc.
- > Assist the Open Days for freshmen of the Department of Computer Science.

### **Member**

Jun.2021 - Jun.2023

*Chinese Student and Scholars Association, TUOS*

*Sheffield, UK*

- > Helped in organizing activities for the Chinese community.

## Honors

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### **Software Hut Prize**

The University of Sheffield

Sep.2021 - Jun.2022

### **UG Sheff Scholarship**

The University of Sheffield

2020/2021, 2021/2022, 2022/2023