

# Shangjie (Henry) Zheng

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## EDUCATION

<b>Southern Methodist University (SMU)</b> .....	Anticipated May 2024
<i>Master of Science in Computer Science</i>	GPA: 3.96/4.00
<b>University of Missouri-Kansas City (UMKC)</b> .....	May 2021
<i>Bachelor of Science in Mechanical Engineering</i>	GPA: 3.52/4.00

## PROFESSIONAL SKILLS

- **Programming Languages:** Java, Python, JavaScript, TypeScript, HTML/CSS, SQL, MATLAB
- **Database Management Systems:** MongoDB, MySQL
- **Development Frameworks:** Django, React, Redux, Node.JS, Express
- **Modern Development Methodologies:** Object-Oriented Design and Analysis, REST
- **Modern Development Techniques:** Machine Learning, Natural Language Processing, Artificial Intelligence
- **Development Tools and Platforms:** Amazon Web Services, Postman, Docker, Git/GitHub

## ACADEMIC EXPERIENCE

- TA Management System**, SMU | *TypeScript, React, Node.js, MySQL, Jest, GitHub*..... Fall 2023
- Developed a dynamic full stack application using React (front-end) and Node.js (back-end), integrated MySQL database, ensuring user-friendly experience and effective data handling.
  - Drove development in a Scrum team, overseeing all stages from requirements analysis to application deployment.
  - Utilized software tools for version control (GitHub) and container environments (Docker) during team development.
  - Engineered for Lyle CS department, aiming to efficiently serve 1,000+ students and professors.
- Teaching Assistant, "Fundamentals of Algorithm"**, SMU | *Teaching, Algorithm*.....Feb 2023 – May 2023
- Actively supported the professor and students in the course, addressing student inquiries, offering tutoring, enhancing their academic understanding and progress.
  - Responsible for evaluating and grading assignments, providing constructive feedback to students to support their course development, and understanding of the materials.
- Roadside Assistance Application**, SMU | *JavaScript, Node.js, Express.js, MySQL, HTML, CSS* ..... Spring 2023
- Developed a web-based roadside assistance application for direct communication between drivers and technicians.
  - Designed and implemented intuitive user interface using JavaScript, HTML and CSS, coupled with robust middleware built in Express.js for effective user-database interaction.
  - Engineered back-end functionalities and integrated DBMS (MySQL) on top of Node.js framework ensuring a reliable and efficient software system.
- Quadcopter Control System**, UMKC | *Python, PID Control System* ..... Fall 2020
- Designed and assessed a multi-input, multi-output feedback control system, ensuring its dynamic responsiveness.
  - Integrated measurement data from physical hardware into software-based embedded control algorithm, developing a Proportional-Integral-Derivative (PID) control system.
  - Programmed the quadcopter for precise roll/pitch actions with rate and angle control for enhanced maneuverability.

## PROFESSIONAL EXPERIENCE

- Fuyao Glass Illinois Inc.** ..... Jun 2021 – Jun 2022
- Mechanical Engineer*
- Demonstrated comprehensive skills while working across Fabrication, Quality Control, and Engineering departments.
  - Improved process reliability through production monitoring, downtime analysis, and implementing QC strategies.
  - Coordinated cross-department projects, reporting progress to the company, and facilitating management decisions.
- Fuyao Glass Illinois Inc.** .....Summer, 2018/2019/2020
- Engineering Intern*
- Gained expertise and understanding in manufacturing process and the operation strategies adopted by the company.
  - Supported project progress with research and 2/3D AutoCAD designs, enhancing cross-department collaboration.
  - Bridged the communication between Chinese and US engineering teams. Preparing data for management reviews.

## HONORS AND AWARDS

- School of Computing and Engineering Dean's List, UMKC ..... Spring/Fall 2017, Spring/Fall 2018, Spring 2021
- Dean's International Scholars Awards, UMKC .....Jan 2017
- Honor's College, UMKC .....Jan 2018