

# Bowen(Stanley) Zheng

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LinkedIn | GitHub | Academic Webpage | Personal Blogs

## Education

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- University of Wisconsin-Madison**, BS in Computer Science & Statistics Sept 2024 – Now
- GPA: 3.96/4.0
- Sichuan University**, BS in Computer Science Sept 2022 – May 2024
- GPA: 3.94/4.0

## Experience

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### Internship

- Full-Stack Engineer Intern**, Arxtect 2025
- Built a CI/CD pipeline to test LaTeX PDF compilation using both JavaScript (WASM) and Python.
  - Used GitHub Actions and Docker to automate multi-environment testing.
  - Designed a dual-runtime testing framework combining Node.js and Python CLI tools.

### Research

- UGRIP & Research Intern**, Mohamed bin Zayed University of Artificial Intelligence 2025 - Now
- Developed a **real-time music accompaniment generation system** that produces high-quality musical outputs.
  - Scaled the **model architecture** to enhance creative expressiveness and output quality.
  - Optimized **inference speed and latency** to meet real-time performance requirements.
- Honor Undergraduate Research (HUR)**, Sichuan University 2022-2023
- Conducted in-depth literature review on AI-related topics and research methodologies.
  - Gained foundational experience in academic research and scholarly writing.

### Campus

- Undergraduate Innovation and Entrepreneurship Training Program Project**, 2023-2024
- Responsible for the majority of the programming tasks of the "Development of a Central Control System for Intelligent Teaching Devices Based on the Construction of the Pittsburgh Institute New Building" project
  - Enhanced the system's interactivity and automation level by utilizing a target detection model (YOLO)
- Vice captain and coach of the football team**, 2023-2024
- I actively participated in the football team, and finally led the team to achieve good results

### Awards and Achievements

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- Dean's List**, 2024 fall, 2025 spring  
College of Letters & Science, University of Wisconsin-Madison
- Dean's List**, 2022-2023, 2023-2024  
Sichuan University Pittsburgh Institution
- First-Class Scholarship**, 2022-2023  
Sichuan University
- Provincial Second Prize**, 2023  
"GaoJiao" Champion Contemporary Undergraduate Mathematical Contest

## Publications

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**Real-Time Language Model Jamming: A Case Study for Live Music Accompaniment Generation**, *RTAS 2026* Nov 2025

*Bowen Zheng\**, Andrew Yang\*, Jiaqi Ruan, He Jia, Xinyue Li, Yuanxin Chen, Ziyu Wang, Xiaosong Ma

## Technologies

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**Coding:** Java, Python, C, R,  $\LaTeX$ , Matlab, ...

**Web Dev:** HTML, CSS, JavaScript, React, TypeScript

**Misc.:** Familiar with AI relevant library like Numpy, PyTorch, Scipy...; Academic research; Soccer.

## Certification

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TOEFL (97 points) 2024