Xinyue Zhang

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EDUCATION

Northwestern University – Evanston, IL   GPA: 4.0
Bachelor of Science in Computer Science, Minor in Data Science and Engineering   Murphy Scholar, Dean's List
Master of Science in Computer Science   **Anticipated Grad: June 2026**

SKILLS

Computer Languages: C, C++, JavaScript, C#, Python, MATLAB, SQL, Java
Technologies and Platforms: GitHub, Unity, MuJoCo, AWS, Visual Studios, Bootstrap, Photoshop
Languages: Native Mandarin Chinese, Conversational Spanish

RELEVANT COURSES

- Data Structures and Algorithms
- Electronics Design
- Scalable Software Architectures
- Machine Learning
- Game Design and Development
- Intro to Artificial Intelligence

EXPERIENCE

Undergrad Research Assistant Program   **December 2023 – Present**
Research Assistant
- Collaborating with lab professor to develop and implement convertible drones stemming from existing open-source designs.
- Drafting detailed weekly reports based on research results and implementation progress.

Fundamentals of Computer Programming I   **September 2023 – December 2023**
Teaching Assistant
- Hosted weekly office hours to help students master the fundamentals of Computer Science in an introductory course.
- Lead biweekly coding exercises and discussions on the ethical usage of Computer Science.
- Managed a cohort of 10 students in class and helped them grasp confusing topics.

Xenobot Lab – Northwestern University   **February 2023 – December 2023**
Lab Intern
- Conducted literature reviews and researched methodologies in robot modeling and simulation.
- Designed graphical models of current and developing robots for display on the lab website.

PROJECTS

Robotics – UROV   **September 2022 – June 2023**
Buoyancy Engine
- Co-lead the designing and building of the buoyancy engine using Tupperware and syringes.
- Collected data to problem-solve the stability and functionality of the engine.

Design, Thinking, and Communication   **January 2023 – April 2023**
Vertical Panel Saw Dust Collection   Client- Northwestern Segal Fabrication Lab
- Collaborated with team members to design an inexpensive, functional dust collection for a panel saw.
- Led team meetings and organized timelines throughout the project development and presentation phases.

Individual Projects
Personal Website [https://xinyuezhang-shirley.github.io/]   August 2023 – Present
- Self-taught HTML/CSS/JS with the aid of existing HTML libraries and online documentation.
- Showcases ongoing and completed coding projects, poems, and art pieces.

World Happiness Report Applet [https://xinyuezhang-shirley.github.io/worldHappinessReport.html]   August 2023
- Self-taught Bootstrap/HTML/CSS/JS displaying the statistics from the WHR2022 CSV data.
- Executed mini-ranking game and utilized chart.js to manipulate and display CSV data.

ACTIVITIES

NU Robotics	UROV Electrical Team	January 2023 – Present
NU Solar	Software Team, Mechanical Team	September 2022 – Present
K-Dance	Dancer	September 2023 – Present