

# Jade Zhao

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## EDUCATION

**Indiana University, Luddy School of Informatics, Computing, and Engineering** Bloomington, IN  
*Bachelor of Science in Informatics | GPA: 3.70 | Class of 2027* August 2023 – May 2027

- Hudson & Holland Scholar (full-ride merit scholarship) · Luddy Direct Admit & Study Abroad Scholarship
- Concentration: Business and Society · Minor: Business, Kelley School of Business
- Study Abroad: Universidad Complutense de Madrid (Spring 2026) · Hutton International Experiences Program

## EXPERIENCE

**Undergraduate Research Assistant** September 2025 – December 2025  
*Proactive Health Informatics Research Group, IU Luddy School* Bloomington, IN

- Developed HIPAA-compliant database systems using Python and SQL to process patient data; reduced data entry errors by 30%
- Built real-time patient monitoring systems with data analytics and anomaly detection; reduced workload by 25–40%
- Researched ethical AI safeguards including audit trails, bias detection, and human oversight mechanisms

**Undergraduate Teaching Assistant** August 2023 – December 2025  
*IU Office of Student Life, Mentoring Services & Leadership Development* Bloomington, IN

- Built campus navigation tools for first-generation and low-income students with accessible guides on advising and degree pathways
- Automated information-sharing processes so advisors could shift from transactional work to mentorship and student support
- Supported students navigating study abroad opportunities and international program applications

**AI Client Team Lead** January 2024 – May 2025  
*Laurie Burns McRobbie ServeIT Clinic, Indiana University* Bloomington, IN

- Led cross-functional team of 5 students using Agile to build adaptive learning platforms; increased engagement by 45%
- Designed accessible AI tutoring systems for English language learners and students with learning disabilities
- Implemented ethical AI safeguards including bias detection, transparent decision-making, and educator oversight

## PROJECTS

**Indiana Phenology Lab Research** January 2025 – May 2025

- Analyzed environmental science data using Python and data visualization libraries; improved research efficiency by 40%
- Designed accessible data presentations using D3.js and Figma; achieved WCAG 2.1 AA compliance standards

**Middle Way House Website Redesign** August 2024 – December 2024

- Led website redesign for nonprofit serving domestic violence survivors; increased usability by 65% and conversions by 28%
- Conducted accessibility audits on 200+ UI components using WAVE and Axe DevTools; achieved WCAG 2.1 AA/AAA compliance

**City of Bloomington Digital Accessibility** January 2024 – May 2024

- Conducted accessibility audits on 10+ municipal websites using automated and manual testing; identified 150+ compliance issues
- Developed actionable recommendations with implementation roadmap; elevated sites from failing to meeting WCAG 2.1 AA standards

## SKILLS

**Development:** Python, SQL, HTML, CSS, JavaScript, React, Node.js, PostgreSQL, Git/GitHub, D3.js  
**Data & Systems:** Real-time systems, HIPAA compliance, Data governance, ETL, Analytics, Database design  
**AI & Ethics:** Bias detection, Ethical AI frameworks, Human oversight, Transparent systems, LLM orchestration  
**Design & Accessibility:** WCAG 2.1 AA/AAA, Figma, Adobe Creative Suite, User research, WAVE, Axe DevTools  
**Methods:** Agile/Scrum, Team leadership, Cross-functional collaboration, Human-centered design  
**Languages:** English (Native), Mandarin Chinese (Professional Working Proficiency), Spanish (Elementary)