**ZHIJUN ZHAO** +1 8129551777 | zhao_zachary@outlook.com

## EDUCATION

**Indiana University Bloomington** — Bloomington, IN
GPA: 3.83/4.00; Expected May, 2030 — *Ph.D. in Computer Science*

**University of Illinois Urbana-Champaign** — Urbana, IL
GPA: 3.86/4.00; Dean's List Spring 2023; Graduated May, 2025 — *B.S. in Computer Engineering*

**Zhejiang University - University of Illinois Urbana-Champaign Joint Institute** — Haining, Zhejiang
GPA: 3.93/4.00; Graduated May, 2025 — *B.S. in Computer Engineering*

## COURSE HIGHLIGHTS

Computer Systems Engineering, Artificial Intelligence, Database Systems, Intro to Data Mining, Data Science Analytics using Probabilistic Graph Models, Control Systems, Digital Signal Processing, Intro to Algorithms, Computer Systems and Programming, Data Structures

## TECHNICAL SKILLS

C/C++, Python, x86 Assembly, JavaScript, System Verilog, SQL, CypherQL, Git, Office, Anaconda, VS Code

## PUBLICATIONS

A. Alawini, I. Hajara-Yasmin, J. Xu, Y. Zhang and **Z. Zhao**, "GA2Graph: A Data-Driven Approach to Visualizing and Analyzing Collaborative Learning," in 2024 IEEE Frontiers in Education Conference (FIE), Washington, DC, USA, 2024, pp. 1-9, doi: 10.1109/FIE61694.2024.10892840.

## WORK EXPERIENCE

**PingPong Global Solution Inc.** — Hangzhou, Zhejiang
*Data Intern* — 6/2022 – 9/2022
- Generated reports by extracting and cleaning business data from company databases.
- Examined databases on cloud computing systems.

## TEACHING EXPERIENCE

**Zhejiang University - University of Illinois Urbana-Champaign Joint Institute** — Haining, Zhejiang
*Teaching Assistant, ECE 391: Computer Systems Engineering* — 2/2025 – 6/2025
- Assisted with the instruction during lab sessions.
- Held office hours to answer questions, graded homework and proctored midterms.

**Zhejiang University - University of Illinois Urbana-Champaign Joint Institute** — Haining, Zhejiang
*Writing Assistant, RHET 102: Principles of Research* — 2/2025 – 6/2025
- Conducted after-class discussions and group study sessions.

**Zhejiang University - University of Illinois Urbana-Champaign Joint Institute** — Haining, Zhejiang
*Teaching Assistant, CS 101: Intro to Computing* — 9/2024 – 1/2025
- Held office hours to answer questions, graded homework and proctored midterms.
- Assisted with the instruction during lab sessions.

**University of Illinois Urbana-Champaign** — Urbana, IL
*Course Assistant, CS 411: Database Systems* — 6/2024 – 8/2024
- Held office hours to answer questions, graded homework and proctored midterms.
- Guided students on final projects.

**University of Illinois Urbana-Champaign** — Haining, Zhejiang
*Writing Assistant, RHET 101: Principles of Writing / RHET 102: Principles of Research* — 9/2022 – 6/2023
- Conducted after-class discussions and group study sessions.

## RESEARCH PROJECTS

**PGraphBench**
*Research Assistant* — 8/2025 – Present
Indiana University Bloomington — Bloomington, IN
- Built evaluation benchmark for graph database platforms on real-life property datasets.

**GA2Graph**
*Research Assistant* — 2/2024 – 8/2024
Alawini Lab, University of Illinois Urbana-Champaign — Urbana, IL
- Stored students' collaborated activities during in-class online group assignments into Neo4j graph database.
- Built a webtool with runtime filters to display and manipulate the graph data and perform collaboration pattern classifications.
- Explored machine learning approaches to classify different collaboration patterns.

**Cell Tracklet Segmentation**
*Undergraduate Research Assistan* — 9/2022 – 6/2023
Zhejiang University — Haining, Zhejiang
- Tested convolutional network models that utilized temporal information to determine the mitosis stages of cells.
- Annotated lab data.

## COURSE PROJECTS

**A simple Linux operating system (C, x86 Assembly)**
ECE 391: Computer Systems Engineering — 3/2024 – 5/2024
- Built a simple operating system that could run 6 programs concurrently from scratch and developed its keyboard driver, real time clock driver, power control, and programmable interval timer driver.
- Enabled file system and system calls for the system

**SafeWalk L.A. (Java, SQL)**
CS 411: Database Systems — 8/2023 – 12/2023
- Created a webtool to look up crime records in Los Angeles from 2020 to 2021.
- Collaborated with students on web design, database modifications, and building a navigation system.