

# SHANBO ZHANG

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## EDUCATION

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### University of Illinois at Urbana-Champaign

Expected Graduation: May 2026

- Bachelor of Science in **Computer Engineering** Sophomore
- Bachelor of Science in **Mathematics** Cumulative GPA: 3.91/4.00
- Relevant Coursework: Computer Systems, Communication Systems, Hardware Systems
- Honor: James Scholars at College of Engineering, Dean's List (Fall 2022, Fall 2023)

## EXPERIENCE

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- Multimedia Operating Systems and Networking (MONET) Urbana, IL, Spring 2024 - Present
  - MAINTVISION Spring 2024
    - \* Integrates **ESP32Cam** to gauges in laboratories and applied ML models to monitor its display;
    - \* Builds broker-client communication to receive models and send displayed numbers by **MQTT**;
    - \* Visualizes received data and alerted users if data exceeded customized bounds.
- IllinixEx (ECE 391 Course Project & Extension) Urbana, IL, Spring 2024 - Present
  - Develops a Linux-like interactive operating system kernel in **C** and **x86** that can run user programs;
  - Makes the given provided file system from read-only to writable for files' creation, edition, deletion;
  - Adds more functionality to the kernel beyond course requirements.
- Schedule Counselor Summer 2024 - Present
  - Memoizes customized events and deadlines, and notifies users before events start;
  - Monitors users' foreground window and keeps their attention on the work;
  - Provides suggestions and example schedules based on priority of customized events.
- Illini Electric Motorsports Urbana, IL, Fall 2023 - Present
  - Helped improve efficiency and decrease the cost of the existing data analysis procedure;
  - Redesigned UI to increase the accessibility of data to other members.
- Library Manager Development Jinan, Shandong, China, August 2021
  - Learned **SQL** Programming, and designed databases for storages of libraries, books, and authors;
  - Designed front and back end of client and server in **C++** and **Win32**, built connection using **socket**.
- Astronomy Society Beijing, China, October 2021
  - Parsed data of solar flares generated in specific format in **C++**;
  - Visualized data and attempted to find potential relations between variables using **Pandas (Python)**;
  - Applied machine learning models to predict future changes in solar flares.

## LEADERSHIP

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- Microfilm Festival Beijing, China, 2020
  - Provided technical support and suggestions for filming to our cinematographer and director;
  - Instructed group members to use Adobe Premiere Pro and Adobe After Effects to edit videos;
  - Organized the film's structure, being responsible for cohering results of other team members.

## SKILLS & INTERESTS

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- **Language:** English, Mandarin
- **Programming Languages:** C/C++, x86, Rust, Java (Intermediate); SQL, Python, C# (Basic)
- **Tools:** Adobe Premiere Pro, Adobe Photoshop (Intermediate)
- **Interest:** Soccer, Badminton, Fitness, Español