

## Jiahao Fang

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### EDUCATION

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**University of Illinois Urbana-Champaign** Illinois, USA  
Graduate, The Master of Science (M.S.) in *Computer Science*, August 2024 - May 2026 (Expected)

**University of Illinois Urbana-Champaign** Illinois, USA  
Undergraduate, Major in *Electrical Engineering*, Minor in *Computer Science*, August 2020 - May 2024 (Expected)  
GPA 3.89/4.00

- CS 411 Database Systems (A)
- CS 498 Cloud Computing Applications (A)
- ECE 397 Individual Study in ECE (A)

**Zhejiang University** Zhejiang, China  
Undergraduate, Major in *Electrical Engineering and Automation*, September 2020 - June 2024 (Expected)  
GPA 3.90/4.00

### RESEARCH EXPERIENCE

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**The Application of Machine Learning to Database Query** May 2023 - May 2024  
*Undergraduate Research Assistant in Computer Science Department* Supervised by Professor Daniel Kang  
Contribution to Conference Publication, University of Illinois Urbana-Champaign

- Implemented and reproduced functioning code of specify approximate selection with guarantees (SUPG) to prepare for Approximate Selection with Guarantees using Proxies in *GitHub*
- Generated experiment datasets, modify codes, and did experiments about query optimization for Applied AI for Database Systems and Applications (**AIDB**)

**Self-study for Machine Learning and Computational Imaging** January - May 2023  
*ECE 397, Individual Study in ECE Problems* Supervised by Professor Jane Zhao  
Independent Study Course about image processing, University of Illinois Urbana-Champaign

- Developed object detection Machine Learning models in different types of unstructured datasets, such as images, audios, and videos
- Summaried advantages of various Machine Learning algorithms based on math proof in *Course Report*

### CONFERENCE PUBLICATION

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Tengjun Jin, Akash Mittal, Chenghao Mo, **Jiahao Fang**, Chengsong Zhang, Timothy Dai, **Daniel Kang\***.  
*AIDB: a Sparsely Materialized Database for Queries using Machine Learning. accepted to the 8th Data Management for End-to-End Machine Learning (DEEM) workshop at SIGMOD, Santiago, Chile, June 9th, 2024.*

### COURSE PROJECT

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*CS 411 Database Course Project*, University of Illinois Urbana-Champaign Fall 2022

- Established a complete website on PC or a local network from the front end through back to the server and the database with *project sample link*
- Achieved login, search, and post functions on our website

### HONORS AND AWARDS

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**The Third Prize** of Zhejiang University Academic Excellence August 2022 - May 2023

**The Third Prize** of Zhejiang University Academic Excellence September 2020 - June 2021

**Meritorious Winner** (Top 7 percent) January 2021  
The Mathematical Contest in Modeling in Problem A: Fungi

### COMPUTER SKILLS

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**Basic Languages:** Python, C++  
**Database:** MySQL, MongoDB, Neo4j (SQL and NoSQL)  
**Web Design:** Nodejs, Postman, React (JavaScript library)