Jiahao Fang

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EDUCATION

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

The Application of Machine Learning to Datebase 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

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

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

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

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