Jiayuan Hong

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EDUCATION

University of Illinois Urbana Champaign(Dean's List for 2021-2022)   **Urbana, IL**
B.S. in Computer Science and Mathematics GPA: 3.77/4.00   *Aug 2021 - May 2023*

Xidian University(First Prize Scholarship for 2018-2019)   **Xian, China**
Major in Computer Science   *Aug 2018 - June 2020*

EXPERIENCES

University of Illinois Urbana-Champaign   **Urbana, IL**
Database System (CS 411) Course Assistant   *January 2023 - Present*
- Design homework and Machine Problem (MP) using **Python Colab** notebook.
- Hold weekly office hours to assist students one-on-one **debug** their code.
- Use **MySQL**, **MongoDB**, and **Neo4j** to write queries to check students' answers.

Zhejiang Uniview Technologies   **Xian, China**
Backend Developer Intern   *January 2021 - March 2021*
- Implemented Uniview Cloud Service to provide service for professional IP **video surveillance** devices and involved in the comprehensive application of **Spring Boot**, Eureka, Redis, Linux, and distributed systems.
- Solved the **heartbeat mechanism** problem, checked device functionality regularly, and **automated asynchronous login tasks** for offline devices in a poor network environment.
- Designed a suitable **heartbeat packet** in the **application layer** by starting a timer in the program, making the connection more stable and the system more robust.

SELECTED PROJECTS

Apartment Rental App   *September 2022 – Present*
https://github.com/Einsgates/ApartmentRental

- Use **NodeJS** to implement the backend, consuming **Zillow API** to get the information of properties.
- Use **ReactJS** to build the frontend, supports **Google Map** Search and Key Word Search.
- Rank properties by needs and save customers' favorite apartments, using **JWT** for user safety.
- Use **MongoDB** to store the information and provided some user-interaction functions.

WechAt: A Chatting and Selling Products App   *May 2022 – Dec 2022*
https://github.com/Einsgates/WechAt

- Provided a **Full-stack** Platform for users to chat with each other and sell their products.
- Used **Google Cloud** for MySQL and **NodeJS** to implement the Backend functions. Advanced queries like Transaction and Procedure are also used to implement complicated functions.
- Used **VueJS** to implement frontend, including pages like login, account, product, and chat session.

Your Videos App   *February 2022 – August 2022*
https://github.com/Einsgates/YourVideos

- Created a video app that includes **Google Authentication** and supports uploading, publishing.
- Used **Next.js** including file-based routing and data using server-side rendering and static generation.
- Managed the database using the unified content platform **Sanity Backend** and React for frontend.

SKILLS

- **Languages**: JavaScript, Python, Java, C++, C, Matlab, MySQL, MongoDB, Neo4j, Ocaml
- **Tools**: React, Node.js, Express.js, Next.js, REST, Spring Boot, Spring MVC, Django, Git