

Jiayuan Hong

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🌐 <https://github.com/Einsgates>

☎ 217-200-0555

EDUCATION

University of Illinois Urbana Champaign

Urbana, IL

B.S. in Computer Science and Mathematics GPA: 3.88/4.00

Aug 2021 - May 2023

Xidian University (Transferred to UIUC)

Xian, China

Major in Computer Science

Aug 2019 - June 2021

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

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.

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, commenting, liking, and filtering videos by categories.
- 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.