

Yanshi XU

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Education

Renmin University of China

2022/09 – 2025/06

Computer Application Technology - Master's degree

Beijing, China

- Research Fields: Cloud Databases, AI4DB. Supervised by Prof. Xiaoyong Du and Prof. Wei Lu, Information School, RUC.
- Key Laboratory of Data Engineering and Knowledge Engineering (Ministry of Education), Renmin University of China.
- Computer-related courses: Database Management System Theory and Implementation (A), Cloud Computing and Big Data (A), Intelligent Information Retrieval (A), Business Intelligence (A), Big Data and Artificial Intelligence (A), etc.
- GPA: 3.93 / 4.0. Has received multiple scholarships and grants for graduate studies.

Nanjing University

2017/09 – 2021/07

Applied Meteorology - Bachelor's degree

Nanjing, China

- IT-related courses: Fundamentals of Programming (99), Applications of Modern Information Technology, Python Programming, etc.
- Honors and Awards: Third prize in the 2018 Jiangsu Province Information Technology Application Contest.

Skills

- Programming Languages: Proficient in Java, Python, and C/C++, familiar with Go and JavaScript.
- Backend Development: Solid understanding of Java fundamentals and commonly used libraries, with a strong object-oriented mindset. Proficient in using the Spring framework and familiar with its design principles. Experienced in the backend development process, capable of conducting requirement analysis, system design, and development for various backend services and business systems. Certified as a full-stack developer by the University of Helsinki.
- Databases: Proficient in open-source relational databases such as MySQL and PostgreSQL. Skilled in SQL usage and familiar with Redis.
- Computer Fundamentals: Familiar with basic Data Structures and Algorithms, Database design and implementation. Knowledgeable in Operating Systems, and Computer Networks.
- Other Skills: Proficient in basic operations of Git and experienced in using GitHub. Well-versed in Linux fundamentals and commonly used Shell commands. Familiar with Python web scraping, data processing, and data analysis. Knowledgeable in using Docker containers. Understanding of fundamental principles and basic applications of Deep Learning.
- Natural Languages: English (Business Level), Mandarin Chinese (Native Speaker), Japanese (Basic Level).

Internships

Huawei Technologies Co., Ltd.

2023/06 – 2024/05

Research Intern. Database Kernel R&D Engineer

Beijing, China

- Contributed to the development of Taurus/GaussDB, a database of Huawei internally, by reading and referencing the MySQL source code.
- In the field of fault recovery in Taurus, our internship team is expected to produce a research paper and two patents in 2024. The focus is on accelerating the recovery speed of the database in a cloud-native environment after a failure occurs.

Projects

Haresora Shokudo A Java practice project with a back-end and front-end separation approach

2023/02 – 2023/10

A Shokudo (cafeteria) management system using a Java-based, back-end and front-end separation approach. The system consists of two parts: a system management backend (JavaWeb) and a mobile application(WeChat Mini Program & Vue.js).

The management system backend is designed for internal staff use, providing functions to manage and maintain cafeteria categories, dishes, menus, orders, and employees. On the other hand, the mobile application is intended for consumers, allowing them to browse dishes, add items to their shopping cart, and place orders online.

The backend application layer utilizes the Spring framework to simplify development and generates interface API documentation with Swagger for convenient debugging. The frontend user layer is built using WeChat Mini Program and Vue technologies.

Nginx reverse proxy is employed to facilitate communication between the front-end and back-end, along with implementing load balancing to distribute the workload evenly.

MySQL is used for data storage, and MyBatis is adopted to simplify the development of the persistence layer. Additionally, Redis is utilized to cache frequently accessed data, and Spring Cache is employed to optimize code and improve system performance and response speed.

Gino Gin-like Web framework

2022/08 – 2022/12

Developed a Gin-like Web framework by Go programming language that leverages basic Web features provided by Go's standard net/http library, such as listening to ports, mapping static routes, parsing HTTP messages, etc. The framework encapsulates some of the commonly used features of Web development to form a relatively complete Web framework. The project takes reference from Gin, a commonly used Web framework in Go.

The main functions implemented in this Web framework include context management, Trie tree routing, group control, middleware, HTML templates, and fault recovery.