

SHEN, Si Tong

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Github: <https://cybertron-loki.github.io/>

SKILLS

Languages:

Cantonese, Mandarin, English

Tech Stack:

Java, Servlet, SSM, SpringBoot ; MySql, Redis, MongoDB, Hadoop ; RabbitMQ, WebSocket; Docker, CentOS, Git, MobaXterm , Maven, Postman ; HTML, CSS , JS, Bootstrap, React.

EDUCATION

City University of Hong Kong	E-commerce, Master	2024 - 2025
NorthEast Agriculture University	Computer Science, Bachelor	2019 – 2023

Course highlight:

Data Structures, Computer Systems, Operating Systems, Computer Networks, Cloud computing, Python, C, C++ , Big data algorithm and technology , Information security , System analysis and design.

WORK EXPERIENCE

PeakRe

Hong Kong Oct 2024 – now

Project: Typhoon Monitoring System

Front-end developer Intern

Responsibilities and tasks:

- Designed responsive pages with **Bootstrap**, integrating internationalization and language switching; enhanced user experience through responsive modals and input validation.
- Leveraged **Amap** API to visualize real-time typhoon paths and precipitation data, familiar with system data flow, responsible for designing and implementing data interaction functionalities with backend via **AJAX**.
- Refactored **CSS** for improved readability and maintainability, optimizing class naming and reducing redundancy; restructured **HTML** for enhanced semantics and accessibility.

Tianxun Ruida Communication Technology Co., Ltd.

Guangzhou Oct 2023 – Jan 2024

Project: Government Canteen Management System

Back-end developer Intern

Responsibilities and tasks:

- Participated in developing backend modules for personnel, dishes, goods, and warehouse management. This includes **pagination** for data queries, and basic operations functions. Utilized **ExcelUtils** for data import/export using **Stream** and managed **file load/download** functionalities. Implemented Blowfish **encryption** for data security.
- Created a custom **tool** class for automatic generation of unique identifiers, which significantly reduced code redundancy and eased the development workload.
- Employed **AOP** and **annotations** to handle duplicate data processing and submissions, ensuring data consistency.
- Utilized data dictionary to store fields, **optimize index**, reducing database storage load, improving query efficiency.
- Interacted with the front-end using **Swagger**, maintaining timely and effective communication to resolve data **synchronization** issues and choose optimal data structures for simplicity and convenience.
- Enhanced project features according to new user requirements. Modified complex logic structures, including adjustments to the inventory tables. Implemented multi-condition checks to determine storage methods for various inbound processes such as direct transfer, procurement, replenishment, and returns. Clarified complex business workflows and designed logical structures to ensure rational processes.

PROJECT EXPERIENCE

Project: Little Things (2024)

Project Background: To help users avoid bad experiences and AD., it allows users to share and recommend things within groups, and flag poor quality food. Users can set flexible post visibility, and the app categorizes shared content for easy searching.

Responsibilities

- Design overall project , analysis requirements, design database using **No-SQL**, and develop system in a **RESTful** style.
- Addressed **cache penetration** issues using **Redis** and employed **LUA** scripts to ensure **multi-threaded** concurrency safety for coupon flash sales, preventing issues such as one person placing multiple orders and overselling.
- Utilized **RabbitMQ** to process orders and handle order cancellation upon timeout, ensuring message reliability.
- Implemented login and authentication using **Redis and token** technology, with custom **interceptors** for user authentication. Token validation is managed through **ThreadLocal** in conjunction with interceptors.

Project: TakeOut Order Manage System (2023)

Project Background: Developed a food delivery platform for merchants and users based on Spring Boot, The mobile mini-program allows users to browse dishes, add items to the cart, and place orders online.

Responsibilities

- Independently developed 70 APIs, including shopping cart, menu, order, and personnel management modules.
- Established a long connection between the user client and server using **WebSocket**, enabling order notifications and customer reminders. Implemented login and authentication using **JWT** tokens.
- Implemented scheduled order status processing using **Spring Task**, including automatic order cancellation upon timeout.