Yiran Mo

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EDUCATION

Northwestern University	**IL, USA**
Master of Science, Computer Science	Sep.2022 - Dec.2023 (expected)
Miami University, Oxford	**OH, USA**
Bachelor of Science, Computer Science	Jan.2019 - May.2021
University of Washington, Seattle	**WA, USA**
Pre-Science	Sep.2016 - Dec.2018

SKILLS

- **Programming:** Java, C#, C++, SQL, Python, HTML, CSS, AJAX, R, MATLAB
- **Tech Stack:** MySQL, Redis, Linux, Git, Maven, Eclipse, IntelliJ IDEA, NetBeans, Visual Studio, SQL Server
- **Framework:** SpringBoot, Spring MVC, Bootstrap

PROFESSIONAL EXPERIENCE

Software Engineer Intern (Back-end) | EDelta Education   Jun.2022 – Aug.2022

- Part of the team to develop the information management system by using **SpringBoot**, **MyBatis-Plus** and **MySQL**.
- Applied **Spring MVC** architecture to create control flow enabling students to view/update their information and allowing admin to manage students' information such as name, age, grade, activities, background, etc.
- Utilized **MyBatis-Plus** Interceptor to display information by pagination and well organized the content.
- Accelerated data retrieval by 40% using Spring Data **Redis** to cache students' and users' information
- Used **Maven** to manage dependencies and simplified project building process for cross-functional teams' distribution, improving collaboration efficiency.
- Managed source code version control and team development collaboration using **Git**.
- Resulted in 90% satisfaction by all the system users.

PROJECT EXPERIENCE

Blog Backend Management System (Back-end Development)   Jan.2022 – Mar.2022
(Java, SpringBoot, MyBatis-Plus, MySQL, Redis)

- Implemented a blog management platform enabling the management of users, articles, tags, etc.
- Used **Spring MVC** architecture enabling users to view hot article list, article category list, article body, etc.
- Utilized **Spring Security** to implement the authentication and 3-layer access authorization.
- Applied **Spring AOP** to create global exception handler that handle all the exceptions in one place.
- Used **Redis** to store article lists and article details, speeding up the data retrieval by 45%.
- Managed source code version control and team development collaboration using **Git**.

Cooking Helper Web Application (Full Stack Development)   Jun.2021 – Aug.2021
(BootStrap, HTML, CSS, AJAX, SQL Server)

- Implemented a cooking helper application by using **HTML**, **CSS**, **AJAX, BootStrap**, and **SQL Server**.
- Designed and built a relational **SQL** database with 300 records storing food categories, recipes and ingredients info.
- Implemented UI components in the front-end using **HTML**, **CSS**, **AJAX** and **BootStrap** to show food information.
- Demonstrated the first version during weekly meeting and achieved an average rate 4.7/5.0.

TA Scheduler Web Application (Front-End Development)   Jan.2021 – May.2021
(BootStrap, HTML, CSS, JavaScript)

- Developed a TA Scheduler platform enabling students to register/apply for TA and professor to select and manage TAs.
- Constructed UI components in the front-end using **HTML**, **CSS**, **JavaScript** and **BootStrap** to display course list, students' profile page, TA status, etc.