

# Ruibin Lin (Ben)

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## Skills

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- Programming Languages: Python, Java, JavaScript, C, PHP
- Databases: SQL, PostgreSQL, MySQL, MongoDB
- Web development: HTML, CSS, Angular, Typescript, React, Next.js, Django, Node.js, REST API, WordPress
- Additional: Deep Learning (PyTorch, NumPy), Object-Oriented Design, Git, Jira, Azure DevOps
- Adaptable in Agile Environments: Quick to learn and apply new technologies and tools.

## Work Experience

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### Full-Stack Developer

May-Sep 2023

Ministry of Health Government of Ontario Toronto, ON, Canada

- Developed a web application for data processing and analysis using the **MERN stack** (MongoDB, Express.js, React, Node.js), resulting in a 30% reduction in data processing time.
- Designed and implemented authentication and user management systems, enhancing security and reducing unauthorized access by 15%.
- Collaborated with a cross-functional team of 6 developers to build a real-time reporting dashboard, reducing report generation time by 25%.
- Optimized backend performance through code refactoring and query optimization, supporting **200+** concurrent users without latency issues.

## Projects

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### UHome: Rental Website

Oct-Dec 2023

- Developed a student housing rental website using the **MERN stack** (MongoDB, Express.js, React.js, Node.js), supporting 5000+ users.
- Designed a secure authentication system using **JWT** and **bcrypt**, enabling multiple roles (student, landlord, admin).
- Integrated a real-time forum using **Socket.IO** for user communication, leading to a 30% increase in user engagement.
- Reduced database query time by 50% by implementing advanced **indexing** and **query optimization techniques**.

### Easy Chef: Recipe-Sharing Website

Sep-Oct 2023

- Built a user-friendly recipe-sharing platform using **React** and **Django**, resulting in a 25% increase in user sign-ups during a limited open beta.
- Developed key features, including user profile management, recipe operations (creation, editing, deletion, and rating), and a shopping list module to improve user engagement and usability.

### Security Enhancement

Feb-Apr 2023

- Analyzed an existing **PHP**-based system to identify critical web vulnerabilities, reducing security risks by 40%.
- Diagnosed and mitigated over 20 security flaws, including **SQL injection** and **XSS** (cross-site scripting).
- Implemented secure coding techniques to remediate vulnerabilities, resulting in a 30% decrease in potential exploit exposure.

### Bach Shell: Custom Shell Implementation

May-Sep 2022

- Built a custom shell in **C**, implementing core functionalities including **argument parsing**, **file I/O**, and basic shell commands.
- Enhanced user interaction by adding **signal handling** and **scripting support**.
- Extensively tested and debugged the custom shell implementation using **GDB** to ensure reliable performance across diverse use cases.

### Doctor's Office Booking App

Oct-Dec 2020

- Developed a scheduling application using **Java** and **Gradle** as a build tool, with JavaScript for the front-end interface.
- Implemented features like appointment booking, patient records management, and calendar integration, improving clinic efficiency by 20%.

## Education

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### Honors Bachelor of Science – Computer Science and Statistics

June/2024 Graduated

University of Toronto

Relevant Courses: Software Design (Java), Data Structures and Introduction to Databases (SQL), Programming on the Web (HTML, CSS, JavaScript, Django)