

YuJian (Richie) Zhou

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EDUCATION

University of Wisconsin-Madison GPA: 3.8/4.0

Madison, WI

Bachelor of Science in Computer Science and Data Science

September 2020 – Anticipated December 2023

Courses: Data Structure and Algorithms, Artificial Intelligence, Computer Graphics, Database Management Systems, Operating Systems, Software Engineering, Virtual Reality, Data Science Programming, and Data Modeling.

EXPERIENCE

Software Engineer Intern, Northern Trust

Chicago, IL

June 2023 – August 2023

- Leveraged **Java, JavaScript, and SQL** to enhance both front-end and back-end services of NT's Goals Driven Wealth Management platform, resulting in an 8% increase in transaction processing speed.
- Integrated **RESTful** APIs using **Spring Boot**, streamlining data exchange between NT Global Investment Client Reporting and Information Delivery trade model microservices, leading to a 15% improvement in system responsiveness.
- Optimized **Java and Python** codes, enhancing the reliability and availability of cloud-based services and improving system uptime by 12%.
- Architected, built, and refined **Snowflake** views using **SQL** knowledge and analytical skills. The optimization of SQL queries and indexes resulted in a 30% boost in data processing speed, enabling rapid and efficient data extraction for investment reporting.

Software Developer Intern, Rockitcoin

Chicago, IL

August 2022 – March 2023

- Utilized **TypeScript, JavaScript, HTML, CSS, and React** to enhance both frontend and backend services of Rockitcoin's Bitcoin ATM, mobile, and web platform, leading to a 30% improvement in performance.
- Developed intuitive user interfaces with **React** for over 5000 users, enabling real-time display and data modification.
- Improved user interface rendering speed by 10% through debouncing in **React**, effectively limiting API requests from text fields.
- Adopted **HashMap** data structure to store frequently accessed user information efficiently, thereby reducing lookup time by 20% and enhancing system performance.

Full Stack Developer Intern, UNFCU

New York, NY

May 2022 – August 2022

- Refined and optimized **JavaScript, HTML, CSS, and PHP codes**, enhancing cross-browser and cross-platform compatibility of a high-traffic customer-facing website and increasing efficiency by 10%.
- Implemented **Python**-based automation tools for text extraction, keyword search, PDF/PPT merging, and data filtering within our team, leading to a 30% increase in workload efficiency and faster user deployments.
- Utilized the **Next.js** framework to design and implement intuitive entry pages, enhancing user navigation and understanding of company culture, thereby contributing to a 30% increase in customer satisfaction.
- Maintained **SQL** databases with over 150,000+ entries, creating an infrastructure for real-time reporting of key metrics like customer satisfaction, annual revenues, and sales retention rates, providing valuable insights to stakeholders.

PROJECTS

Patient Appointment Reminder

Summer 2020

- Built an appointment reminder website using **Vue.js** that allows patients to easily set up appointments, view available slots, and make instant modifications with real time synchronization.
- Integrated **Next.js, JQuery, and Bootstrap** to architect and implement the frontend UI of modules, ensuring a seamless UI.
- Developed a streamlined **JavaScript API** communication system for automated text or email reminders to patients before appointments.

Human Resource Management - <https://github.com/arunike/vhr>

Summer 2021

- Constructed a comprehensive management website using **Spring Boot and Vue.js**, facilitating efficient management of employees' data, roles, and access.
- Devised and executed a **MySQL** database to securely store and track critical employee data such as job title, salary, and performance review history. Utilized **MyBatis** to achieve the connection between **Tomcat** server and database.
- Modified the **JavaScript API** for efficient delivery notifications between HR and employees, enhancing communication.

Online Shop - <https://github.com/arunike/Online-Shop>

Summer 2022

- Developed an intuitive online shopping platform using **Spring Boot**, enhancing the shopping experience for users.
- Utilized the **Redis** in-memory data structure to facilitate real-time product search and optimize shopping cart functionality.
- Modified the **JavaScript API** to streamline communication between buyers and sellers, improving transaction processing.

SKILLS

Programming Languages: Java, C/C++, Python, R, and SQL

Tech Stacks: JavaScript, TypeScript, HTML, CSS, React, Vue, Spring Boot, Snowflake, Firebase, Redis, and MySQL