YuJian (Richie) Zhou

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EDUCATION

University of Wisconsin-Madison — Madison, WI
Bachelor of Science in Computer Science and Data Science — September 2020 – Anticipated December 2023
GPA: 3.8/4.0

EXPERIENCE

Software Engineer Intern, Northern Trust — *Chicago, Illinois*
June 2023 – August 2023

- Leveraged **Java, JavaScript, and SQL** to enhance both front-end and back-end services of Northern Trust's investment and banking platform, resulting in a 25% increase in transaction processing speed.
- Integrated **RESTful** APIs using **Spring Boot**, streamlining data exchange between microservices, leading to a 35% improvement in system responsiveness.
- Optimized **Java and Python** code, enhancing the reliability and availability of Northern Trust's 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 Asset Management reporting.
- Implemented **GitHub Actions**, facilitating automation of microservices deployment across **Azure** Private and Public Clouds. The standardization of deployment processes reduced the software delivery lifecycle by 25%, increasing productivity and expediting time-to-market.

Software Developer Intern, Rockitcoin — *Chicago, Illinois*
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.
- Integrated **Twilio.js and SendGrid.js** APIs to facilitate text and email communication with users, culminating in a 60% uptick in customer satisfaction.
- 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, New York*
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.
- Optimized user interface and website interactions using **React**, achieving a 20% rise 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

Human Resource Management - https://github.com/arunike/vhr — Summer 2021

- Constructed a comprehensive management website using **Spring Boot and Vue**, enabling efficient management of employees' data, roles, and access.
- Devised and executed a **MySQL** database to reliably store and track essential employee information such as job title, salary, and performance review history.
- Developed a **JavaScript** API for efficient delivery of text and email notifications to employees, enhancing communication between HR and staff.

Online Shop - https://github.com/arunike/Online-Shop — Summer 2022

- Developed an intuitive online shopping platform using **Spring Boot**, enhancing the online 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, SQL, and Spring Boot
Web Technologies: JavaScript, TypeScript, HTML, CSS, React, and Vue