Yuxin Ren

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SUMMARY

Results-oriented and innovative Software Engineer, with hands-on experience specializing in both front-end and back-end **web application development**. Proficient in Java, JavaScript (React), Spring Boot, and **RESTful APIs**, with extensive experience in with extensive experience in **CI/CD**, **DevOps**, and **Cloud** technologies. Demonstrated expertise in working within an **Agile** development environment, focusing on delivering practical, **production-ready** projects on time.

SKILLS

Languages: Java, JavaScript, TypeScript

Web tech: Spring Boot, SpringMVC, Spring Cloud, JSP, Spring Security, Restful API

Front-end: HTML5, CSS3, React, JSP, JFormDesigner

DB: SQL, MySQL, PostgreSQL, MangoDB, Redis, MyBatis

Tools: AWS, Git, Maven, Vite, Docker, Microsoft Power, JMeter, Swagger, Springfox, Nacos, Nginx

EDUCATION

The University of Melbourne - Software Engineering - Master's Degree   Feb 2023 - Dec 2025

Major Courses: Object-Oriented Software Development, Distributed Systems, Database Systems, Testing, etc.

Xi'an Jiaotong University - Management - Bachelor's Degree   Sep 2018 - Jul 2022

Major Courses: Project Management, Linear Algebra, Databases Fundamental, Probability Theory, etc.

PROFESSIONAL EXPERIENCE

[Hua's Pharmaceuticals Co., Ltd.] - Backend Software Developer (Intern)   May 2024 - Aug 2024

Description: Developed key components for an enterprise-level project management system, focusing on user management and system stability enhancements.

Technologies: **Java, SQL, SpringMVC, Nacos, Redis, Skywalking**

- Design and implement the back-end part of the 'User Management System' based on Product prototype and interface documentation using SpringMVC architecture.
- Ensure stable service registration and configuration after system reboots by using Nacos.
- Participated in integrating Skywalking to monitor system performance and supported service anomaly notifications, such as sending alerts via DingTalk and email.
- Worked closely with designers and developers and update system documentation to improve team operational efficiency and system reliability.

[BASF - Coatings Technology (Shanghai) Co., Ltd.] -Digital Product Manager (Intern)   Dec 2024 - Present

Description: Supported the production configuration of digital products. Involved in training end-users and collaborated with DevOps teams to enhance product functionality and UX.

Technologies: **Agile methodologies, Microsoft Power Apps, Docker, UX**

- Conducted testing and validation of new features to enhance digital product reliability and user experience.
- Managed virtual color solutions, including system configurations and setup of scan panels and color collections, optimizing operational workflows.
- Collaborated with the DevOps team on Microsoft Power Apps to streamline production processes and application deployment.
- Assisted the Product Owner in configuring production environments for digital products, ensuring alignment with business objectives.
- Trained end-users on utilizing various modules and features of digital products, increasing user adoption and satisfaction.

PROJECT EXPERIENCE

[OrderDash - Food Ordering & Delivery Platform] - Team Leader + Backend Development Lead

Description: Developed an online food ordering and delivery platform, featuring distinct Manager and User interfaces with a frontend-backend separated architecture.

Technologies: **Java, Spring Boot, Spring MVC, JWT, AWS, Knife4j, MyBatis, Redis, Nginx, MD5, Node.js, JavaScript, MySQL, WeChat Mini-Program**

- Selected and set up the technical stack, analyzing existing market solutions to design a scalable system prototype.
- Created and maintained dynamic API documentation and database schema with Knife4j, significantly enhanced API communication and system design.
- Implemented the application layer using Spring Boot and Spring MVC, incorporated JWT for secure authentication and AWS for reliable image storage.
- Optimized database interactions with MyBatis and Redis, achieved a substantial reduction in query times from an average of 127ms to 23ms.
- Coordinated the integration of Nginx as a reverse proxy and implemented MD5 for password encryption for system security.

- Supported and facilitated frontend development, oversaw the creation of the admin panel using Node.js and the user interface with WeChat mini-program, fostering a cohesive and efficient development environment.

[Club-Event Management Web Application] - Team Leader + Full-Stack Development Lead　　　Aug 2024 - Oct 2024

Description: A web application for managing club memberships and RSVPs, focusing on Java Servlets.

Technologies: **Java Servlets, PostgreSQL, JSP, JavaScript, Git, Docker**

- Created and dynamically adjusted API interface documents.
- Apply MVC architectural patterns and concurrency control mechanisms.
- Conducted performance testing with JMeter, optimized system responsiveness and reliability under concurrent access conditions.
- Coordinated frontend and backend integration, effectively resolving technical challenges and ensuring cohesive project progress towards meeting tight deadlines.
- Received high praise from the instructor, with the project recognized as one of the top 5 for its technical excellence and effective teamwork.

[Distributed Shared Whiteboard System Development] - Backend Developer　　　Oct 2023 - Nov 2023

Description: Developed A network-based distributed shared whiteboard application, enabling multiple users to draw on a shared interactive canvas in real-time.

Technologies: **Java, JFormDesigner, Git, Socket**

- Designed and implemented a decentralized server architecture where each session is initiated by a manager, optimizing for temporary collaboration and enhancing performance through data locality.
- Developed a reliable communication layer using structured messaging to ensure accurate, real-time synchronization across clients.
- Implemented thread-safe mechanisms with synchronization and locking to manage concurrent data access, ensuring system consistency.
- Ranked in the top 15% of the cohort for project performance, demonstrating excellence in design, implementation, and delivery.

[Canvas Smart Education Plugin] - Team Leader　　　Jul 2024 - Nov 2024

Description: Developed an AI-powered plugin for Canvas LMS to enhance student learning and instructor course management.

Technology: **Spring Boot, OpenAI API, Baidu API, Redis, MangoDB**

- Developed advanced features such as a smart chatbot for instant homework assistance, adaptive quizzes with dynamic difficulty adjustment, personalized learning progress tracking, and comprehensive tools for managing course materials and analyzing student inquiries.
- Led the QA strategy, designing and implementing a rigorous testing framework that included unit, integration, and user acceptance testing, ensuring the delivery of high-quality features.
- Built a scalable QA framework using agile methodologies to support core functionalities, manage testing iterations, detect defects early, and maintain high standards of functionality and usability.
- Bridged cultural and technical gaps within the team, enhancing communication and alignment across diverse stakeholders.
- Managed tight deadlines through strategic planning and prioritization, achieving timely delivery of key milestones. The project met all functional goals, received client acclaim, and was awarded First-Class Honours (H1).

LEADERSHIP EXPERIENCE

[IEEE WIE AG University of Melbourne Student Branch] - Vice-Chair　　　Jul 2024 - Present

- Collaborate with **Engineers Australia** and co-organized the "Unlock Your Engineering Future: Migration Skill Assessment & Getting Chartered Workshop". Achieved remarkable engagement with over **90%** attendance. Post-event feedback revealed that **98%** of participants found the workshop beneficial to their career development.
- Organized the "Building Resilient Careers: Navigating the Tech Industry" panel, featuring four distinguished leaders from **Canva**, **Telstra**, **CSL**, and **NAB**. The event attracted more than **85%** attendees, facilitating discussions on workplace culture, career growth, leadership, and work-life balance. Received positive feedback for creating a valuable platform for students to engage with industry experts, gain actionable insights, and develop career resilience strategies.
- Individually recognised the volunteering contributions with the "**Outstanding Event/Initiative Award 2024**", while the branch was honored with the "**Outstanding Student Branch WIE AG Award 2024**" by **IEEE Victoria**.

SKILLS, CERTIFICATIONS & OTHERS

- **Skills:** Microsoft Office Suite, Canva, Trello, Jira, OneDrive, Google Drive, LaTeX, Slack, Teams
- **Languages:** English, Mandarin
- **Interests:** Basketball, Fitness, Volunteering, Photography.