

# RUOBING (ROBIN) YANG

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## BASIC INFO

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- ✧ Name: Ruobing (Robin) Yang
- ✧ Location: Auckland, New Zealand
- ✧ Phone: (+64) 277886001
- ✧ Mail: robinyang029@gmail.com
- ✧ Tech Blog: <https://yrbing.github.io/>
- ✧ Work Experience: 7+ years / Senior Front-end Engineer
- ✧ **Visa Status: Open Work Visa (Full working rights in NZ)**

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## PROFESSIONAL SUMMARY

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Senior Frontend Engineer with **7+ years** of experience at global tech leaders including **ByteDance (TikTok) and Xiaomi**. Specializes in architecting high-performance web applications across the **React ecosystem**, with a strong focus on seamless UI/UX implementation. An active technical blogger passionate about sharing cutting-edge web standards and industry best practices. **Currently based in Auckland, engaged with the local community through Auckland City Mission, and eager to deliver technical excellence within New Zealand's tech sector.**

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## KEY SKILLS

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- Languages: TypeScript, JavaScript (ES6+), HTML5, CSS3 (SCSS, Tailwind CSS, styled-components)
- Frameworks & Libraries: React (Hooks, Context, Router), Next.js, Redux, Zustand, TanStack Query
- Engineering & Architecture: Webpack, Vite, Rollup, CI/CD (Jenkins, GitLab CI, GitHub Actions)
- Performance & Optimization: Core Web Vitals, Chrome DevTools, Bundle Optimization
- Cross-Platform & Mobile: Hybrid App, JSBridge, React Native
- Backend & Collaboration: Node.js, GraphQL, RESTful APIs, MongoDB, Express/Koa, WebSocket

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## PROFESSIONAL EXPERIENCE

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### AUCKLAND CITY MISSION (MISSION GROCER)

Auckland, New Zealand

*Senior Front-end Engineer (Volunteer)*

Mar 2026 - Present

<https://www.missiongrocer.co.nz/>

Applying my senior engineering expertise to support the local community by improving the e-commerce infrastructure for a local social enterprise using **Shopify**. (**Liquid templates**, custom CSS/JS, **Shopify CLI**).

- Identified **accessibility (a11y)** gaps for diverse user groups and proactively spearheaded the integration of assistive tools, ensuring compliance with NZ web standards.
- Recognized manual bottlenecks in product updates; independently architected an automated labeling system to enhance homepage hierarchy and user engagement.
- Observed manual friction in physical market stalls using paper forms; proposed and implemented a QR-code-to-DB digital sign-up flow, transitioning users from offline interaction to a streamlined online database, significantly boosting data accuracy and campaign exposure.
- Partnered with the Project Manager in weekly strategy sessions to **proactively identify operational bottlenecks**; proposed and executed end-to-end solutions that bridged the gap between community needs and technical implementation.

### PROFESSIONAL UPGRADING & RELOCATION

China → New Zealand

*Senior Engineer (Independent)*

Aug 2023 - Present

A proactive sabbatical focused on technical modernization, linguistic fluency, and international relocation.

- Engineering Excellence (**WASM & React 19**): Conceptualized, architected, and deployed Everyone Chess (<https://everyone-chess.vercel.app/>) — a high-performance trainer solving UX gaps found in mainstream apps. Integrated **Stockfish** (WASM) via **Web Workers** to provide real-time move analysis, hosted on **Vercel** with automated **CI/CD**.
- AI-Driven Delivery: Harnessed **Claude Code** and advanced LLM prompting to accelerate the full development

lifecycle of the "Everyone Chess" project. Utilized **AI** for rapid prototyping and complex WASM debugging, resulting in a 2x increase in feature delivery speed.

- Technical Writing & Engineering: Engineered a personalized **technical blog** using **Hugo**, implementing automated **CI/CD pipelines** via **GitHub Actions**. Authored a deep-dive series on **core algorithms** (e.g., sliding-window patterns) and modern web standards, translating complex logic into accessible learning resources.
- Language & Culture: Achieved professional working proficiency with an **IELTS score of 7.5 (Perfect 9.0 in Listening & Reading)** and **PTE 83**, ensuring seamless technical collaboration and effective cross-cultural communication in the NZ tech landscape.
- Personal Discipline & Strategy: Maintained high-performance routines through **Ballet** (discipline and precision) and Competitive **Chess** (logical strategy), fostering the focus and mental resilience essential for senior technical roles.

## BYTEDANCE (TIKTOK)

Beijing, China

Senior Front-end Engineer

Apr 2019 - Aug 2023

Led the frontend team for Douyin's consumer finance core business (serving **100M+ users**), responsible for technical architecture, engineering systems, and team development.

- Spearheaded the transition from legacy **Vue** to **React + TS**, boosting page performance by 20% and feature iteration speed by 35%.
- Optimized First Contentful Paint (**FCP**) by implementing Bundle Analysis, Code Splitting, and Tree Shaking; leveraged Service Workers and HTTP Caching to achieve a 40% reduction in initial load time.
- Architected a shared Internal UI Library using **React** and **SCSS**, translating high-fidelity **Figma** designs into responsive, high-performance web interfaces to ensure 100% design consistency across 5+ core products.
- Architected a unified **JSBridge SDK** for H5, ensuring 100% UI consistency and a 40% gain in development efficiency.
- Built a **Node.js** automated monitoring system, reducing production incidents by 60% through real-time error tracking and root cause analysis.
- Mentored 5+ developers and implemented a **standardized end-to-end frontend workflow**—encompassing Technical Design Docs (TDD), development, stringent Code Review protocols, and automated deployment; consistently earned top-tier performance ratings (E/M+).

## XIAOMI

Beijing, China

Front-end Engineer

Apr 2016 - Apr 2019

Contributing to the core development of Xiaomi's cloud infrastructure, focusing on delivering high-concurrency management tools and modernizing legacy front-end architectures.

- Led the transition from legacy **AngularJS** to **React**, implementing **GraphQL** for efficient data fetching; refactored core modules and slashed maintenance costs by 40%.
- Core Developer for the Xiaomi Cloud Management Platform; engineered high-concurrency consoles and PaaS orchestration tools, including Container Management systems to manage large-scale cloud assets.
- Containerized development environments using **Docker** to ensure cross-team environment consistency and streamlined local testing for complex microservices.

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## EDUCATION

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### BEIJING UNIVERSITY OF POSTS AND TELECOMMUNICATIONS (BUPT)

China

Master of Computer Science and Technology

September 2013 – March 2016

Bachelor of Software Engineering

September 2009 – July 2013

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## ADDITIONAL INFORMATION

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➤ **Languages**

English (Fluent) | Mandarin Chinese (Native)

➤ **Tech Blog**

<https://yrbing.github.io/>