

# RUOBING (ROBIN) YANG

## BASIC INFO

- ❖ Name: Ruobing (Robin) Yang
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- ❖ Tech Blog: <https://yrbing.github.io/>
- ❖ Work Experience: 7 years / Senior Front-end Engineer

## PROFESSIONAL SUMMARY

Senior Front-end Developer with **7+ years** of experience at industry leaders including ByteDance(TikTok) and Xiaomi. Expert in architecting high-concurrency web applications within the **React ecosystem**, with a specialized focus on Web Performance optimization and seamless UX/UI integration. Active technical blogger dedicated to sharing cutting-edge web standards and mentoring engineering teams.

## KEY SKILLS

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

## PROFESSIONAL EXPERIENCE

### BYTEDANCE (TIKTOK)

China, Beijing

*Senior Front-end Engineer*

Apr 2019 - Aug 2023

Led the frontend team for Douyin's consumer finance core business, 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, SCSS and Gulp**, ensuring design consistency across 5+ 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+ junior/senior developers and established standardized **CI/CD pipelines** and code review protocols; consistently earned top-tier performance ratings (E/M+).

### XIAOMI

China, Beijing

*Front-end Engineer*

Apr 2016 - Apr 2019

- Core Developer for the Xiaomi Cloud Management Platform; engineered high-concurrency consoles and orchestration tools to manage large-scale cloud resources efficiently.
- Led the transition from legacy **AngularJS** to **React**, implementing **GraphQL** for efficient data fetching; refactored core modules and slashed maintenance costs by 40%.
- Delivered high-traffic modules and campaign pages using **React Native & Hybrid**, ensuring 99.9% release stability during peak shopping festivals.

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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/>