Xiaorui Wang

Software Engineer | Frontend & Backend & Mobile developer & Full-Stack

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Education

Master of Science in Informatics | 02/2024 - 02/2026(expected)
USI - Università della Svizzera italiana | Lugano, Switzerland

Bachelor of Computer Science | 09/2011 - 07/2015
Henan Polytechnic University | Jiaozuo, China

Work Experience

JD.com | Senior Software Engineer | Shanghai, China | 10/2020 - 07/2023
A leading global e-commerce and supply chain technology company.

- **Hybrid Framework Innovation:** Architected and optimized JDHybrid,a proprietary hybrid container solution supporting 100M+ daily page views (PV) and 4,000+ domains across JD's mobile app, leveraging WKWebView with native enhancements to deliver near-native H5 performance. Key technical contributions:
  - **Offline Package Preloading:** Designed dynamic resource interception and local caching mechanisms, reducing H5 first-screen latency by 30% and achieving 92% instant-load rate (from 29.5% baseline).
  - **Hybrid Rendering Engine:** Developed a native-H5 hybrid rendering system resolving component mapping/gesture conflicts, boosting video startup speed by 40% and eliminating image tearing issues.
  - **Bandwidth Optimization:** Implemented intelligent resource degradation and incremental updates, reducing CDN peak traffic by 80% during 618/Singles' Day campaigns.
- **Technical Influence:** Authored 5+ patents, published 10+ articles on JD's tech blog, and delivered internal workshops on hybrid development best practices. Recognized with Top Performer (A+) in 2022.
- **Promotion & Impact:** Accelerated career growth from P6 to P7 within 2 years with 30% salary increase, recognized for driving technical innovation and business-critical results.

ZTO Express | Software Engineer | Shanghai, China | 07/2017 - 10/2020
A leading express delivery company in China and one of the largest express delivery companies globally.

- Achieved rapid career advancement with two promotions for successfully developing and launching the Tu Xi Express Supermarket iOS app, demonstrating exceptional technical leadership.
- Led complete app modernization using Swift, resulting in 60% performance improvement and 80% crash rate reduction through advanced architecture and optimization techniques.
- Pioneered cross-platform development strategy using Flutter, optimizing development efficiency and maintaining consistent user experience across iOS and Android platforms.

Projects & Open Source

TODO-Calendar 🔗
- A clean, minimalist task management calendar web application deployed at https://todocalendar.live. Features real-time updates, OAuth2 authentication and JWT-based security.
- Built with JavaScript/TypeScript/React/Redux/Tailwind CSS/responsive design frontend for mobile and desktop, and Java/Spring Boot/MySQL/RESTful api backend, Deployed with Docker and Nginx reverse proxy at cloud server.

StepApp 🔗
A smart running app for Android, developed in Java, integrating multi-sensor tracking (GPS/accelerometer/gyroscope) and LLM-driven adaptive training plans with real-time route visualization.

WCache 🔗
A high-performance, thread-safe, and lightweight iOS caching library implemented in C++, supporting both memory and disk caching.

Technical Skills

Programming Languages: JavaScript/TypeScript, Java, Objective-C, Swift, C/C++, Python
Frontend: React.js, Redux, Tailwind CSS, Flutter
Backend: Spring Boot, Node.js, MySQL, RESTful api
Mobile Development: iOS, Android, Flutter, React Native
DevOps & Tools: Docker, Nginx, Git, OAuth2, JWT, CI/CD

Languages Skills

English: Fluent
Chinese: Native