

Harold Yin

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Summary

Full-stack software engineer with 6+ years of experience across Australia, China, and the U.S. Skilled in building scalable Java microservices and high-performance search platforms with Elasticsearch. On the front end, experienced in developing responsive interfaces using React and Next.js. Proficient in DevOps practices, including Docker, Kubernetes, and CI/CD pipelines using GitHub Actions and GitLab CI for streamlined deployment and monitoring. Delivered AI-integrated content systems with high availability. Based in NSW, open to hybrid or on-site roles.

Work Experience

Trip.com Group, The Biggest Asia-Pacific OTA 04.2021 - 05.2025 **Lead Software Engineer**

Description: User-generated content (UGC) platform for reviews, Q&A, and AI-driven evaluation system supporting large-scale search and data pipelines

Technologies: Java, Spring Boot, Elasticsearch, Redis, MySQL, Hive, DataX, Python (Pandas, OpenAI API), Next.js, React, Node.js, Mobx

- Refactored legacy UGC review system into micro-service architecture with separation of Job-type services (batch tasks and data synchronization), API services (external interfaces), and aggregate services (content distribution).
- Optimized the Elasticsearch cluster with 100M+ docs by replacing script sort with field sort, reducing latency from 500ms+ to ~100ms.
- Designed and implemented incremental data pipelines syncing Hive to **MySQL** and Elasticsearch using **DataX** and Zeus scheduler.
- Built the *Trip Moments* with **React**, **Next.js**, and **Mobx**; improved first screen load speed from 2.3s to 1s and reduced bundle size by 30%
- Integrated Lighthouse CI/CD for automated **SEO** and performance audits, boosting page performance score from 30 to 82. This optimization contributed to MAU growth from 0 to **100K+** by significantly improving page load speed and search engine visibility.
- Designed and developed an internal content generation platform using **Java**, **Redis**, and MQ, integrated with **Stable Diffusion** for image stylization. Implemented asynchronous workflows to process, search, and generate content from a media library, improving scalability and system throughput.

Benchmark Gensuite, U.S company 06.2019 - 04.2021 **Product Developer**

Description: Enterprise SaaS platform for supply chain compliance and environmental reporting used by Fortune 500 manufacturers

Technologies: Java, jQuery, SQL Server, RESTful API, Agile, React

- Developed and maintained core modules of the Product Stewardship suite, contributing to the platform's recognition as a "Top Product of the Year" by Environment + Energy Leader.
- Led full-stack development of the SCIP (Substances of Concern in Products) reporting module, including front-end/back-end integration and SQL performance tuning.

- Visualized complex reporting data and implemented iterative improvements based on direct client feedback.
- Participated in CI/CD improvement efforts and SQL optimization for long-running queries to enhance system responsiveness.

Prosper Education, Australian company 08.2018 - 04.2019 **Associate Web Developer(Intern)**

Description: Collaborated with the Sydney product and operations team to implement WeChat login, admin backend system, and CRM (Zoho) integration for internal workflow and cross-border data.

Technologies: JavaScript, Cocos Creator, Zoho CRM, RESTful API

- Built and deployed WeChat mini-game using the Cocos Creator Engine to boost user engagement across platforms.
- Developed admin backend and integrated WeChat login authentication, ensuring seamless cross-system access for users in China and Australia.
- Led the roll out and customization of Zoho CRM for internal sales and finance teams, improving workflow automation and data consistency.

Skills

Languages: **Java, JavaScript, Python**
 Backend: **Spring Boot, ElasticSearch, Redis, Restful API**, SpringMVC
 Frontend: HTML5, CSS3, jQuery, **React, Nextjs**, Vue, Bootstrap, Mobx
 DB: SQL, **MySQL**, SQLServer, TiDB
 Tools: **AWS**, Git, Gradle/Maven, Webpack, Jenkins

Certificates & Honors

AWS Solutions Architect – Associate

Trip.com Group Outstanding Project Award

3rd Prize, Trip.com Group AI Hackathon Competition (2023)

Excellence PM Award 2020

PM Shining Star Award

Education

2025.07 - 2027.06	University of Wollongong Major: Computer Science
2015.08 - 2019.05	Zhejiang Gongshang University Major : Network Engineering