Harold Yin

✉ haroldyin@outlook.com　　📞 +61-0480571345　　in https://www.linkedin.com/in/harold-yin-dev/

WORKING EXPERIENCE

Trip.com Group   Apr 2021 – May 2025
Lead Software Engineer   *The Biggest Asia-Pacific OTA*
- Designed, developed, and optimized a UGC platform using microservices architecture, Java Spring Boot, Elasticsearch, Redis, and MySQL, enhancing system reliability and performance.
- Monitored API performance using Kibana Dashboards, resolving bottlenecks in Elasticsearch and SQL queries to ensure optimal system efficiency.
- Led end-to-end optimization of the Trip Moments, increasing SEO score by 167% (30 to 82) through Google Lighthouse guidelines and Next.js performance tuning, driving organic traffic growth to 100K+ MAU.

Benchmark Gensuite   U.S. company
Product Developer   *May 2020 – Apr 2021*
- Key developer maintaining Product Stewardship - enterprise-level SaaS platform powering sustainable supply chains for Fortune 500 manufacturers. Contributed to 2020 Environment + Energy Leader "Top Product of the Year" award through system optimization and cross-functional alignment; Enhanced platform capabilities driving #2 global ranking in Verdantix report.
- Spearheaded full-stack development across 3+ applications, including architectural refactoring of Survey System that enhanced TTI by 40% through React optimization. Directed Agile teams to deliver several concurrent projects with 100% on-time completion. Owned end-to-end system design from RESTful API development to SQL optimization.

Associate Product Developer   *June 2019 – May 2020*
- Worked within Agile teams to develop and deliver high-quality software features. Optimised long-running SQL queries, resolving timeout issues and improving system performance. Consistently met sprint goals and was honoured with 'Employee of the Year' and 'Top Sprinter' awards.
- Performed full-stack development and maintenance for internal applications including Mapper and Permit Manager, delivering bug fixes, implementing new features, and contributing to ongoing product iterations.

Prosper Education   Aug 2018 – Apr 2019
Associate Web Developer (Internship)   *Australian Company*
- Collaborated with cross-functional teams in Sydney and Chinese agencies to implement WeChat login authentication and develop an admin backend system, ensuring seamless integration across platforms.
- Designed and developed a WeChat mini-game using the Cocos Creator Engine, driving a measurable increase in user engagement.
- Led the implementation and ongoing management of the Zoho CRM system, enhancing operational efficiency in sales and finance teams. Utilized Zoho's API to automate data reporting, providing structured weekly insights to the Australian headquarters.

TECHNICAL SKILLS

Languages: Java, JavaScript, SQL, Python, ColdFusion
Backend: Spring Boot, ElasticSearch, MQ, Redis, Node.js
Frontend: React, Vue, HTML5, CSS, Next.js, Bootstrap, Element-UI, Express.js, Webpack, JQuery
Databases: MySQL, SQL Server, MongoDB
DevOps & Tools: Git, Postman, Linux

Projects

User Reviews & QA System | *Java, Redis, MySQL, MQ, ElasticSearch*
- Maintained the user reviews and Q&A system. Optimised Elasticsearch sorting performance by replacing slow scripts with efficient field-based sorting, reducing queries over 500ms to around 100ms.
- Migrated legacy review system codebase by refactoring and consolidating services into distinct categories based on business needs: Job-type services, API services, and Aggregation services. Integrated offline Hive data provided by the BI team and synchronized it with Elasticsearch using incremental updates via the Zeus Hadoop scheduling platform, ensuring up-to-date data availability.

- Responsible for maintaining large-scale Elasticsearch indices exceeding 100 million documents, focusing on efficient index rebuilding processes and optimizing query response times.

Trip Moments | *React.js, Next.js, Mobx*
- Refactored code to build a Node.js application using Next.js and Mobx, improving maintainability and performance.
- Implemented automated testing based on Lighthouse standards, increasing the page score from 30 to 82+.
- Optimized first-screen loading speed from 2.3s to 1s and reduced package volume by 30%, enhancing user engagement and reducing response time by 20%.
- Integrated Lighthouse CI into the build pipeline to automatically audit page performance, accessibility, and SEO metrics. Set up regular evaluations of Lighthouse scores correlated with code commit patterns to proactively identify regressions and maintain consistent quality standards.

AI-Powered Data Labeling and Evaluation System | *Hive, Python (Pandas, OpenAI API), Excel Automation, MySQL, RESTful API*
- Extracted and transformed offline data from Hive tables, converting it into structured Excel files for sorting and preparation.
- Generated dynamic prompts for each entry based on business logic, and utilized GPT-4o for automated evaluation and classification.
- Validated and aggregated results with manual review, then uploaded final datasets into MySQL via API and exposed classification statistics through custom-built API endpoints for internal reporting.

AIGC Pipeline Platform | *Java, Redis, ElasticSearch, MQ*
- Developed an internal AIGC platform using Java, Redis, ElasticSearch, and MQ, improving operational efficiency and enhancing the content ecosystem. Leveraged fabric.js for image adjustments and Stable Diffusion for advanced image stylization.
- Designed asynchronous workflows to optimize content retrieval, search, processing, and generation from a media library, significantly improving system performance and scalability.

SCIP (Substances of Concern in Products) Reporting and Integration | *jQuery, SQLServer*
- Designed a public interface file to access different types of business functions through different UUIDs. Implemented complete business logic, from front-end to back-end.
- Visualized the SCIP Reporting, improved the SQL performance and contributed to iterative development based on customer feedback. Delivered successfully and the generated file can be used with the ECHA system.

EDUCATION

University of Wollongong   July 2025 – June 2027
Master of Computer Science   *Australia*
Zhejiang Gongshang University   Aug 2015 – May 2019
Bachelor of Science in Network Engineering   *China*
- Provincial Government Scholarship

HONORS & CERTIFICATION

3rd Prize, Trip.com Group AI Hackathon Competition (2023)
Trip.com Group Outstanding Project Award — Recognised for leading a high-impact project that generated significant business value and contributed measurable revenue growth for the company.
Excellence PM Award 2020 — Ranked Top 7 in Product Management Department: Recognised for Excellence in Management and Maintenance Application
PM Shining Star Award — Recognised for Excellence in Management and Maintenance Application
 AWS Certified Solutions Architect – Associate