

Ryan Zhang

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Skills

- **Languages:** TypeScript, Java, SQL
- **Web Tech:** React, Next.js, Vue3, Tailwind CSS, Framer Motion
- **Backend & Database:** NestJS, Spring Boot, Prisma ORM, PostgreSQL, MongoDB, Supabase
- **Tools/DevOps:** Git, Docker, AWS (basic), Vercel
- **Testing:** Jest

Work Experience

Frontend Developer (Intern) – Lingyun Technology, Shenzhen | Jan 2024 – Jun 2024

Description: Enterprise-level attendance management system and internal module refactoring.

Technologies: TypeScript, React, Java, Spring Boot, RESTful API

- Refactored the attendance module in Spring Boot into stateless RESTful APIs with standardized CRUD design, improving frontend integration.
- Applied Service and Repository patterns with DTOs and TypeScript interfaces to enforce data consistency and reduce runtime errors.
- Optimized JPA pagination and implemented front-end debounce and fuzzy search, improving API response time by ~30% and lowering database load.
- Designed a responsive UI system using Atomic Design, Tailwind CSS, Framer Motion, and Factory Pattern to maximize component reusability.
- Followed Git-flow, led PR reviews for core modules, and contributed to Docker-based CI/CD pipelines for automated deployments to Vercel.

Key Projects

KeyMotion | React, TypeScript, NestJS, Prisma, PostgreSQL, Vercel, Railway

Description: A production-style typing analytics web application featuring real-time performance tracking and global leaderboards.

- Built and deployed a production-style typing analytics app with a React + TypeScript frontend and a NestJS REST API backend.
- Designed a modular architecture (typing engine, timer, auth, results, leaderboard) and implemented real-time WPM/accuracy/error tracking for stable high-frequency input feedback.
- Secured protected endpoints with JWT and Passport, enforcing API contracts and data integrity via ValidationPipe and class-validator.
- Developed leaderboard and history capabilities using Prisma aggregation, pagination, and indexed queries for ranking and user statistics.
- Deployed the frontend on Vercel and backend on Railway, managing environment variables, CORS, and cross-origin API integration;

Education

Monash University, Melbourne, Australia | 07.2024 – 06.2026 (Expected)

- **Master of Information Technology**