

Lingyun Li

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TECHNICAL SKILLS

Programming Languages: Java, JavaScript, TypeScript, SQL, Python, jQuery, HTML, CSS

Frameworks/Libraries: React.js, Next.js, Spring Boot, Angular, Flask, Django, Node.js, Pandas, Android

Technologies: MySQL, PostgreSQL, MongoDB, Git, Linux, Hadoop, Spark, Kafka, Docker, Kubernetes, AWS, GCP, Redis

WORK EXPERIENCES

Software Engineer Intern | *React.js, Redux, REST API, Node.js, Express, MongoDB, Redis* Jun 2024 – Sept 2024
Fintelics Technology Inc Toronto, Ontario

- Developed a full-stack meal kit delivery service with pre-portioned ingredients and recipes using the **MERN** stack.
- Built 20+ reusable **React** components, reducing development time by 30% and improving user experience for meal browsing, ordering, and restaurant order management.
- Created a drag-and-drop interface for meal selection with **React**, **Redux** Toolkit, and **Tailwind CSS**, allowing users to easily customize their weekly plans; implemented dynamic ingredient updates, reducing order modification time by 60%.
- Implemented a high-performance search system with **Elasticsearch** and **Node.js**, supporting auto-complete and filtered queries; optimized performance with debounced queries, improving query response time by 50% under high traffic.
- Designed and built a backend review processing system supporting text, photos, and ratings; optimized **MongoDB** queries and implemented **Redis** caching, reducing average API response time from 150 ms to 20 ms.

Software Engineer Intern | *React.js, TypeScript, Tailwind, Jest, AWS, GitHub Actions* May 2022 – Aug 2022
Headspace Los Angeles, California

- Led the UI redesign of the voucher management system using **React** and **TypeScript**, improving user engagement by 35% and reducing voucher processing steps by 50%.
- Built a secure admin dashboard with **JWT authentication** and role-based access control, ensuring zero unauthorized access across all protected routes.
- Optimized form layouts using **Tailwind's** flex and grid utilities, implementing dynamic validation rules and auto-save functionality, reducing data entry errors by 40%.
- Integrated **Redux state management** handling 50+ active promotions, implementing pagination and caching to reduce response times from 800 ms to under 100 ms.
- Reduced initial page load time from 2.5s to under 1s using **React.lazy** and **Suspense**, improving frontend performance and user retention.
- Achieved 90% unit test coverage by creating 50+ unit and integration tests using **Jest**, minimizing production bug rate.
- Automated **CI/CD** pipelines using **GitHub Actions**, cutting manual QA effort by 60% and deployment time by 30%.

PROJECTS

Meal Dash Hub | *Java, Spring Boot, MySQL, Redis, JMeter* Mar 2024 – May 2024

- Developed a food delivery application for restaurant clients, including a backend system for internal management and a consumer-facing mobile app for browsing menus and placing orders.
- Architected a backend system using **Spring Boot** and **MySQL**, improving data access speeds by 40% with optimized indexing and **Spring Data JPA**.
- Implemented an asynchronous order processing pipeline, enabling decoupled inventory updates, payment processing, and order tracking, cutting order processing time from 3s to under 1s.
- Reduced lock request failures from 85.5% to 4.6% by implementing **segment-level locking** with **Redis**, improving order fulfillment efficiency.
- Boosted API performance by 70% with **Spring Cache**, reducing database query load and improving average response time to under 200ms.
- Simulated 1000+ concurrent users with **JMeter**, validating stability and ensuring API throughput under heavy load.

EDUCATION

Simon Fraser University	Sept 2023 – Jun 2025
MSc in Professional Computer Science (GPA 3.81/4.0)	Burnaby, British Columbia
University of Southern California	Sept 2021 – May 2023
Master of Science in Computer Science (GPA 3.52/4.0)	Los Angeles, California
Rose-Hulman Institute of Technology	Sept 2017 – May 2021
Bachelor of Science in Computer Science (GPA 3.68/4.0)	Terre Haute, Indiana