

Zhihao Lin

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Education

University of Minnesota, Twin Cities Bachelor in Computer Science Coursework: Data Structure, Algorithms, Operating Systems, Database Systems, Computer Networks	Exp. Dec 2025 GPA: 3.9/4.0
University of Massachusetts, Amherst Exchange Student in Computer Science Coursework: Search Engines, Computer Organization, Natural Language Processing	Sep 2024 - Dec 2024

Skills

- **Languages:** JavaScript, TypeScript, Java, C, C++, Python, HTML/CSS, SQL
- **Frameworks & Libraries:** React, Redux, React Router, Next.js, Spring Boot, Node.js
- **Databases & ORMs:** MySQL, PostgreSQL, MongoDB, Supabase, Redis, Prisma, MyBatis
- **Tools & Services:** AWS (S3, RDS, EC2, Lambda), Linux, Git, Docker

Projects

zephyrlin.me <i>React, Next.js, Supabase, Prisma, Tailwind CSS, Framer Motion</i>	Sep-Oct 2024
<ul style="list-style-type: none">• Built my portfolio with Next.js, featuring home, blog, project, and message pages, and deployed it on Vercel.• Implemented root components of each page as Server Components, while moving Client Components, such as a message form, down the component tree to reduce the client-side JavaScript bundle size.• Integrated Markdown and MDX for rendering blog contents. Utilized Sanity CMS to manage projects data.• Developed the message page using Supabase as the database and Prisma for ORM, integrated with user authentication through Clerk.• Enhanced user experience(UX) by using React Suspense components to manage loading states for messages data and user login status, and utilized the Next.js App Router for seamless page navigation.• Styled with Tailwind CSS and incorporated Framer Motion for smooth animations and interactions.	
Fast Pizza <i>React, React Router, Redux, Tailwind CSS, Vite</i>	Aug 2024
<ul style="list-style-type: none">• Individually developed a pizza ordering website frontend using React and Vite.• Implemented multi-page navigation with React Router and styled the UI using Tailwind CSS.• Managed global states such as user and cart data using Redux Toolkit.• Implemented RESTful APIs for remote data fetching and mutation, utilizing React Router's data loaders and actions for efficient data handling.	
Sky Takeout <i>Spring Boot, MyBatis, MySQL, Redis, Amazon S3, JWT</i>	March 2024
<ul style="list-style-type: none">• Developed the backend of an customer ordering and restaurant management application using Spring Boot.• Managed data persistence with MyBatis as the ORM and MySQL as the database, following the MVC pattern.• Cached frequently accessed data such as store open/close status with Redis, reducing database load and improving response times in high-concurrency environments.• Utilized Amazon S3 to store images of dishes and other media assets.• Implemented JWT for secure authentication, utilizing ThreadLocal and interceptors to manage sessions.	
Uthread <i>C, Multithreading, Scheduling Algorithms, OS</i>	March 2024
<ul style="list-style-type: none">• Developed a user-level thread library with 9 APIs in the user space mimicking pthread library.• Implemented three scheduling algorithms: Round-Robin, Static Priority and Dynamic Priority Scheduler with aging mechanism.	