

# Louis Lam

Software Engineer

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Software engineer with a strong background in React and Node.js/Express, dedicated to building efficient and user-friendly applications. Passionate about exploring new technologies, personal development, and hobbies such as assembling liquid-cooled PCs and traveling.

## SKILLS

**Languages:** TypeScript, JavaScript, HTML5, CSS, SQL, GraphQL

**Frameworks:** React, Express, Next.js, Vue.js

**Technologies:** Node.js, Redux, React-Router, OAuth, Jest, SuperTest, CI/CD, NoSQL, MongoDB, PostgreSQL, Git/Github, Webpack, Vite, Vercel, SASS, Visx, Tailwind, Serverless, AWS, Apollo

## EXPERIENCE

**Reactime** | Software Engineer | <https://www.reactime.me/>

August 2022 – Present

- Integrated D3 hierarchy and bar charts using Airbnb's Visx in a React UI, enabling data-driven performance optimization and better render time visualization
- Spearheaded TypeScript adoption, resulting in a more maintainable and efficient codebase for faster developer onboarding
- Automated and fortified unit testing with Jest, increasing codebase coverage from 60% to 80% and improving confidence in future expansion
- Improved scalability and user experience for a high-traffic website by migrating from Gatsby to Next.js, reducing load times by 30% and increasing user engagement by 45%
- Mentored and guided 3 other engineers on team and orchestrated code-walkthroughs, providing explanations and constructive feedback
- Revamped a Chrome DevTool to effectively manage technical debt with a robust error handling system, benefiting thousands of developers
- Wrote documentation for prospective contributors, improving clarity and accessibility for new team members.

**Eastern Network Express Inc** | Developer

October 2019 - June 2021

- Optimized SQL database interactions for efficient distribution of critical information, messages, and invoices to consumers based on consolidations, effectively managing financial transactions valued at over millions of dollars.
- Implemented data integration script to streamline data entry and elevated website performance by overhauling and migrating the HTML/CSS codebase into Next.js, integrating Cloudinary API for faster loading, improved SEO, and trimmed server load by 70% by serving static files remotely
- Collaborated with UX designers to create user-friendly interfaces with pixel-perfect accuracy, resulting in a 25% improvement in user satisfaction; conducted cross-browser and cross-device testing to ensure 98% compatibility across diverse platforms.

## OPEN SOURCE PROJECTS

**DiscordNotion** | Notion Integration incorporating Discord as a medium

January 2023 - Present

- Implemented a Node.js feature enabling creation and update of Notion database blocks through Discord, resulting in a 30% increase in productivity
- Employed asynchronous chaining to enhance RESTful API request efficiency and data handling accuracy, cutting response time by 10%
- Devised a Discord Bot and Introduced advanced features, responding to user commands and execution of user inputs based on interactions, creating an intuitive and user-friendly product

**Scrumify v2.0** | Digital Scrum Board to reinforce the principles of Agile methodology

January 2022 - August 2022

- Architected reusable React UI components and 3-layer design patterns to enhance scaling efficiency and ensure a consistent and seamless user experience
- Utilized client-side routing with React Router to minimize HTTP server requests by 15% and provide a faster and more responsive product to users
- Designed and optimized the MongoDB database for optimal performance in data retrieval and 20% faster load times with indexing strategies
- Deployed Node.js/Express framework's middleware design pattern for isolation of concerns and requests for efficacious debugging

**Taskful** | Task Management Distribution System

January 2022 - August 2022

- Created a modular and maintainable React front-end system, abstracting complexities and enhancing user experience by 18%
- Constructed a SQL database with structured schemas, enabling simplified management and consistent scaling, supporting a 50% increase in the data volume
- Integrated secure Google OAuth user login to validate credentials and mitigate data leakage risks from malicious attacks

## EDUCATION

**Codesmith** - Advanced Fullstack Engineering Residency  
**Queens College**

2022  
2019