

# Louis Lam

## Software Engineer

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Full-stack software engineer with expertise in front-end React and backend Node.js/Express framework. Passionate about personal and professional growth. Enjoys assembling liquid-cooled PCs, modifying a Subaru STI, and reading growth-oriented books like Atomic Habits and Mindset.

### SKILLS & RECENT TALK

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

**Technologies:** React, Redux, Node.js, Express, AWS, OAuth, Jest, CI/CD, MongoDB, PostgreSQL, Git/Github, Webpack, Vite, Next.js, Vercel, Tailwind, Vue  
Working knowledge: Python

**Tech Talk:** Featured Speaker @ JEENY & Bractlet 2022 Series "AWS/Cloudtech"

### EXPERIENCE

#### Reactive

Software Engineer 2022 – Present

- Integrated a D3 hierarchy and bar charts in a React UI using Visx to display component render time and metrics, resulting in data-driven decision-making
- Spearheaded the adoption of TypeScript within the team, leading to a streamlined and maintainable codebase that allowed for quicker onboarding of new developers.
- Automated and implemented unit testing with Jest to establish quality of code and confidence to expand functionality
- Led the initiative to improve scalability by rewriting the splash page from Gatsby to Next.js, resulting in significantly faster load times and a vastly improved user experience for thousands of daily users.
- Served as a mentor to other engineers on team and conducted code-walkthroughs, providing feedback and guidance
- Developed a Chrome DevTool to effectively manage and offset technical debt by implementing a robust error handling system that enabled developers to work more efficiently.
- Conducted a comprehensive code review and refactor to address edge cases and improve the overall user experience, producing a more stable and user-friendly application

#### Eastern Network Express Inc.

2021

- Utilized an EDI interface for automated messages based on consolidations, leveraging SQL database interactions to effectively manage and distribute critical information to consumers in real-time.
- Implemented a data integration script to eliminate redundant data and improve performance by 20%, reduced processing times and improved the overall user experience.
- Optimized website performance by overhauling and maintaining the HTML/CSS codebase with Next.js, integrating the Cloudinary API for faster loading times and improved SEO, and reduced server load by serving static files remotely.
- Collaborated closely with UX designers to translate design concepts into user-friendly interfaces with pixel-perfect accuracy.

### OPEN SOURCE PROJECTS

#### DiscordNotion

Software Engineer - 2023

Notion Integration tool that utilizes Discord as a medium

- Devised and implemented a Node.js-based integration that allows users to effortlessly create and update blocks within a Notion database directly from Discord, leading to increased productivity and streamlined workflow.
- Communicated with RESTful APIs using asynchronous techniques to handle events properly and allocate consumer data more effectively, resulting in faster and more accurate data handling.
- Developed advanced features in the Discord Bot that respond to user commands and seamlessly execute inputs based on consumer interactions, creating an intuitive and user-friendly product

#### Scrumify v2.0

Software Engineer - 2022

Digital Scrum Board to reinforce the principles of Agile methodology

- Implemented reusable React components to enhance scaling efficiency and ensure a consistent and seamless user experience throughout the entire project
- Utilized client-side routing with React Router to minimize server requests and provide a faster and more responsive product to users.
- Designed and optimized the MongoDB database to store various types of task data, delivering optimal performance in data retrieval and faster page load times.
- Utilized Node.js/Express framework's middleware design pattern for isolation of concerns and requests for efficacious debugging

#### Taskful

Software Engineer - 2022

Task Management Distribution System

- Developed a React front-end system with hooks to reuse stateful logic for multiple components, creating a more modular and maintainable codebase
- Constructed a SQL database with structured schemas to store relational data, ensuring simplified management and consistency
- Integrated secure Google OAuth user log-in to validate credentials and mitigate the risk of data leakage in the event of a malicious attack, providing added convenience to consumers while ensuring the safety of their data.

### EDUCATION

Codesmith - Advanced Residency for Full Stack Engineers

Queens College