

Louis Lam

Software Engineer

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Software engineer specializing in React and Node.js/Express. I enjoy exploring new technologies and growth opportunities for personal and professional development. In my free time, I enjoy building liquid-cooled PCs, modifying cars, traveling and reading books like Atomic Habits.

SKILLS

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

Frameworks: React, Express, Next.js, Vue

Technologies: Node.js, Redux, OAuth, Jest, CI/CD, MongoDB, PostgreSQL, Git/Github, Webpack, Vite, Vercel, SASS, Visx, Tailwind

EXPERIENCE

Reactive

Software Engineer 2022 – Present

- Integrated a D3 hierarchy and bar charts in a React UI using Airbnb's Visx to display component render time and metrics, allowing users to make data-driven decisions about optimizing performance
- Spearheaded the adoption of TypeScript, resulting in a more maintainable and efficient codebase for faster onboarding of new developers
- Automated and fortified unit testing with Jest to augment codebase integrity and confidence to expand future functionality
- Improved scalability and user experience for a high-traffic website with thousands of daily users by rewriting the splash page from Gatsby to Next.js, resulting in a 30% decrease in load times and a 45% increase in user engagement
- Mentored and guided other engineers on team and orchestrated code-walkthroughs, providing clear explanations and constructive feedback
- Developed a Chrome DevTool to effectively manage and offset technical debt by implementing a robust error handling system, resulting in a more efficient workflow for developers
- Conducted a comprehensive code review and refactor to address edge cases and polish the overall user experience, producing a more stable and intuitive user-friendly application

Eastern Network Express Inc.

Developer 2019 - 2021

- Leveraged SQL database interactions to distribute time-sensitive information, messages and billing invoices to consumers based on consolidations
- Implemented data integration script to streamline data entry and revamp website performance by overhauling and migrating the HTML/CSS codebase into Next.js, integrating the Cloudinary API for faster loading times, improved SEO, and reduced server load by 70% by serving static files remotely
- Collaborated closely with UX designers to translate design concepts into user-friendly interfaces with pixel-perfect accuracy with cross-browser and cross-device testing to ensure compatibility and consistency across different platforms

OPEN SOURCE PROJECTS

DiscordNotion

Software Engineer - 2023

Notion Integration incorporating Discord as a medium

- Developed and implemented a Node.js-based feature enabling users to seamlessly create and update blocks in a Notion database from Discord
- Leveraged asynchronous chaining to optimize RESTful API communication and improve data handling accuracy and speed
- Introduced advanced features in the Discord Bot, responding to user commands and enabling seamless execution of user inputs based on interactions, creating an intuitive and user-friendly product

Scrumify v2.0

Software Engineer - 2022

Digital Scrum Board to reinforce the principles of Agile methodology

- Created reusable React UI components and design patterns to enhance scaling efficiency and ensure a consistent and seamless user experience throughout the application
- 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 load times
- Deployed 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 using hooks to reuse stateful logic for multiple components, creating a more modular and maintainable codebase, abstracting complexities for enhanced user experience
- Constructed a SQL database with structured schemas to store relational data, ensuring simplified management, consistency and scaling
- 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

Queens College