Louis Lam

Software Engineer

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Results-driven software engineer with a strong background in React and Node.js/Express, seeking to leverage my skills in building efficient and user-friendly applications. Passionate about exploring new technologies, personal development, and hobbies such as building liquid-cooled PCs and traveling.

SKILLS

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

EXPERIENCE

Reactime | Software Engineer | https://www.reacti.me/ 　　　　　　　　　　　　　　　　　　　2022 – Present

- Implemented D3 hierarchy and bar charts with Airbnb's Visx in a React UI to facilitate data-driven performance optimization
- Spearheaded TypeScript adoption, resulting in a more maintainable and efficient codebase for faster developer onboarding
- Automated and fortified unit testing with Jest, strengthened codebase coverage from 60% to 80%
- Improved scalability and user experience for a high-traffic website, resulting in a 30% decrease in load times and a 45% increase in user engagement
- Mentored and guided 3 other engineers on team and orchestrated code-walkthroughs, providing explanations and constructive feedback
- Developed a Chrome DevTool to manage technical debt, benefiting thousands of developers
- Conducted code reviews and refactoring to address edge cases and polish user experience, increasing user base by 20%

Eastern Network Express Inc | Developer 　　　　　　　　　　　　　　　　　　　　　　　　　　　　2021

- Optimized SQL database interactions for the timely distribution of information, messages, and invoices to consumers according to 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 Cloudinary API for faster loading, improved SEO, and trimmed 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 | Notion Integration incorporating Discord as a medium 　　　　　2023

- Developed a Node.js-based feature to create and update blocks in a Notion database from Discord
- Employed asynchronous chaining to enhance RESTful API request efficiency and data handling accuracy, cutting response time by 10%
- Introduced advanced features in the Discord Bot, responding to user commands and execution of user inputs based on interactions, creating an intuitive and user-friendly product

Scrumify v2.0 | Software Engineer | Digital Scrum Board to reinforce the principles of Agile methodology 　2022

- Architectured 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 faster load times
- Deployed Node.js/Express framework's middleware design pattern for isolation of concerns and requests for efficacious debugging

Taskful | Software Engineer | Task Management Distribution System 　　　　　　　　　　　　　　　2022

- Created a modular and maintainable React front-end system, enhancing user experience by abstracting complexities
- Constructed a SQL database with structured schemas for simplified management, consistency, and scaling
- Integrated secure Google OAuth user login to validate credentials and mitigate data leakage risks

EDUCATION

Codesmith - Software Engineering Residency
Queens College