

Tommy Li

Software Engineer | Los Angeles, CA

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Technical Skills

JavaScript, TypeScript, React (Hooks, Router), Redux, Node.js, Express, SQL (PostgreSQL), NoSQL (MongoDB), GraphQL, Apollo, Authentication (bcrypt, JWT), Python, Webpack, Git/Github, Gatsby, Chart.js, Chakra UI, Material UI, Bootstrap, HTML/CSS/SASS, TDD (Jest, Supertest), Docker, AWS, Github Actions, Netlify, Adobe Suite

Experience

Kensa | Software Engineer | OSLabs

Aug 2022 - Present

- Developed GraphQL API monitoring app using **React** to dynamically generate components at runtime and maintain one-way data flow across the entire application, increasing scalability and creating a more intuitive debugging process
- Implemented a GraphQL IDE using **Monaco Editor** to allow users to test GraphQL queries, providing a one-stop testing and data-monitoring playground to speed up development process for GraphQL schemas and resolvers
- Created an npm package for app users to easily establish connection between Apollo server and a SQL database through an API key to collect and store query metrics of all requests that are sent to custom GraphQL API endpoints
- Created custom **TypeScripts** types and interfaces to leverage auto type-checking functionality to minimize bugs and prevent runtime errors, improving application scalability and facilitating cross-development among teams
- Integrated **Apollo Server** to an Express backend to communicate with SQL database and provide a self-documenting GraphQL API to the frontend for faster request queries with strongly typed schemas and fields that provide descriptive error messages before execution
- Incorporated **Apollo Client** to create custom React hooks using predefined GraphQL fields to query the exact data and resources from SQL database in a single request on the client side, eliminating over-fetching Deployed application
- Deployed application using **AWS** Elastic Beanstalk and setup Cloudfront distribution to direct all incoming traffic to registered domain name as well as sending all outgoing requests using a secure HTTPS port (kensats.link)

Web Developer | Canterbury Gardens & Gifts

Jan 2018 - Sep 2018

- Utilized WordPress to rebuild Magento website and incorporated SEO plugin for better search engine optimization
 - Managed a database of SKUs with Shopify for eCommerce website for brick-and-mortar Christmas store
 - Used MailChimp to set up mailing list for advertising and marketing purposes
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Projects

MonoJstick | Code snippet sharing app

- Created code snippets sharing app with **React** and **React-Router** to handle client-side routing, centralizing all routes in one component to provide seamless user experience in a single page application by mitigating component re-renders
- Used **Firebase** Authentication SDK to build secure multi-platform authentications and user creation and management

Rumbl | Earthquake information app

- Incorporated USGS API into **Node.js** backend to retrieve and purify a myriad of earthquake data
 - Followed **TDD** with **Jest** and **Supertest** to ensure all REST API endpoints are operating properly and able to handle various edge cases throughout development, helping the app to scale by alerting any breaking changes
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Education

California Polytechnic State University, San Luis Obispo, CA | Bachelor of Architecture

Tech Talk

Jeeny and Bractlet Speakers Series - Serverless Architecture (Lambda)

Interests

Indoor Bouldering | Hiking Mt Baldy | Listening to alternative rock | Playing Overwatch | Working out | Playing Guitar | Sketching buildings | Cooking Italian dishes | Reading sci-fi books | Browsing architecture news | Doing home repair