

Celine Leung

Full-Stack Software Engineer

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TECHNICAL SKILLS

JavaScript (ES5+), TypeScript, React, Redux, Next.js, Tailwind CSS, Node.js, Express, SQL (PostgreSQL), Redis, TDD (Jest/Puppeteer), Git, Webpack, HTML, GraphQL, Authentication (OAuth/JWT's/Bcrypt)

EXPERIENCE

Full-Stack Software Engineer | OS Labs

August 2022 – April 2023

- Developed and deployed an NPM middleware package for GraphQL APIs, which enhance security protocols by utilizing **JSON Web Tokens** for user identification and bolster authentication and authorization accuracy by 30%.
- Integrated Express-HTTP-proxy to create a robust and autonomous proxy server, efficiently directing requests from the playground GUI to the user's local machine server, consequently enhancing system reliability.
- Defined **TypeScript** interfaces and custom types to enforce strict and structural typing throughout the application, ensuring seamless code management and scalability, reducing compile-time errors, and enhancing code readability.
- Leveraged **Redis** for efficient data caching, providing robust monitoring of the origins and frequency of query requests, thereby optimizing system performance and enhancing real-time data access and management.
- Devised a cost-analysis-based rate-limiter to strategically counteract potential spam attacks during GraphQL data retrieval, thus significantly bolstering application security.
- Formulated an efficient algorithm for parsing client GraphQL queries, thereby reducing browser rendering time and enhancing performance through the elimination of redundant API calls to minimize unnecessary network requests.
- Applied **React with hooks** for the creation of reusable, highly-readable frontend GUI components and containers in the LatchQL playground application, facilitating users in effortlessly typing and testing queries.
- Maintained and updated **Jest** test suites to accommodate evolving software requirements, ensuring continuous test coverage and accurate validation of code changes.

Full-Stack Software Engineer | LoanMaster

February 2023 – June 2023

- Applied **Chart.js** to create engaging real-time data visualizations, resulting in a 25% increase in user interaction and enhancing user experience with dynamic and interactive elements.
- Streamlined the container pattern in React and created reusable components to easily maintain and uniformize the codebase through abstractions and the Flux architecture, ensuring maximum efficiency.
- Employed asynchronous, modular middleware functions to authenticate and set **JSON Web Tokens (JWT)** for the userbase, managing the logic to securely and efficiently retrieve requested data from the frontend.
- Deployed **OAuth** authentication to bolster user login security, leading to a 40% reduction in unauthorized access attempts, while providing secure and seamless authentication and effectively protecting sensitive user data.
- Generated and implemented an ACID-compliant **PostgreSQL** database for the marketplace, streamlining transactions and ensuring robust data integrity during concurrent execution of database queries.

Full Stack Engineer | JPEG-Marketplace

August 2022 – November 2022

- Designed and deployed **Express REST APIs** to enable seamless communication and facilitate trading interactions between the application's front-end and back-end components.
- Executed client-side routing using **React Router** to minimize HTTP requests, enhance rendering speed, and optimize user experience during site navigation, resulting in a seamless application with improved performance.
- Developed scalable and maintainable applications with **Webpack**, utilizing hot module reloading, ES6+ transpilation, and file size optimization through minification/uglification for faster load times and enhanced developer efficiency.

EDUCATION

University of California, Los Angeles (UCLA) – Bachelor of Arts, Economics

May 2019

PUBLICATIONS

Tech Talk – TypeScript: Jenny and Bractlet Software Engineering Speaker Series

Medium Article – "LatchQL: customizable security measures for GraphQL API's"