Celine Leung
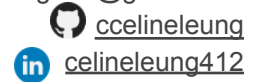
Software Engineer **|** Los Angeles, CA
US Citizen | Open to relocate

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TECHNICAL SKILLS

- **Strong**: JavaScript(ES6+), TypeScript, React(Hooks), Node.js, Express, GraphQL, Redis, SQL (PostgreSQL), Webpack, Authentication (OAuth, JWT's, Bcrypt), HTML/CSS, Git/Github,Tailwind
- **Experienced**: Redux, NoSQL(MongoDB), Bootstrap, TDD(Jest, Enzyme, Puppeteer, Supertest)

EXPERIENCE

Software Engineer | OS Labs   Aug 2022 - Present

- Develope and deploy 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%.
- Engineer a mock GraphQL playground for developers to test queries for users with different permission levels.
- Integrate 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.
- Define 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.
- Leverage 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.
- Devise a cost-analysis-based rate-limiter to strategically counteract potential spam attacks during GraphQL data retrieval, thus significantly bolstering application security.
- Formulate an efficient algorithm for parsing client GraphQL queries, thereby reducing browser rendering time by 40% and enhancing performance through the elimination of redundant API calls and the utilization of client-side caching to minimize unnecessary network requests.
- Apply 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.
- Maintain and update Jest test suites to accommodate evolving software requirements, ensuring continuous test coverage and accurate validation of code changes.
- Product developed under tech accelerator Open Source Labs (opensourcelabs.io).

OPEN SOURCE CONTRIBUTIONS

Full Stack Engineer | LoanMaster   Feb 2023 - Jun 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   Aug 2022 - Nov 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**   Los Angeles, CA | May 2019

TALKS and PUBLICATIONS

- Medium Article - "LatchQL: customizable security measures for GraphQL API's"
- Tech Talk - "TypeScript: Jenny and Bractlet Software Engineering Speaker Series"

INTERESTS

- Community service, Traveling, Skydiving, Snowboarding, Foodie, Cooking, Music, Cats