

Dennis Cheung

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SKILLS

Strong: JavaScript (ES6+), TypeScript, React, Node.js, Express, AWS, SQL, NoSQL, GraphQL, HTML5, Git/GitHub, SASS/SCSS + CSS3, Webpack, TDD

Experienced: Python, Redux, Docker, Travis CI, Agile, Authentication (OAuth, JWTs), Chart.js, Recoil, Accessibility

EXPERIENCE

Qeraunos - Lightweight caching solution for GraphQL

Software Engineer

2022 - Present

- Created and launched an NPM package for GraphQL that reduces the response times of queries and mutations by up to 99% while maintaining data validity and credibility and preventing over fetching of data by introducing a custom LFU/LRU caching solution.
- Implemented a reusable component library in React to modularize and encapsulate UI elements, reducing developer time spent re-writing code and improving the user experience.
- Engineered a Node.js server with its non-blocking, asynchronous runtime environment to optimize web performance through efficient management of peer-to-peer traffic, while maintaining proper delivery of all transferable data.
- Utilized Redis to integrate a server-side caching solution by expanding the storage capacity without compromising the validity or speed of data retrieval for a 50% reduction in response times to end users.
- Built GraphQL schemas and a PostgreSQL database to mirror a typical GraphQL use-case, ensuring consistency in the Qeraunos library by providing a realistic testing environment for a smoother product launch.
- Deployed a single page application using Docker and AWS to achieve a containerized, highly scalable, and reliable production environment, with automated deployment and monitoring, resulting in an uptime exceeding 99.99% and a load time of 0.3 seconds.
- Setup unit and end-to-end testing with Jest, SuperTest, and React testing library to ensure the efficiency of our caching solution and server-side requests to ensure code maintainability and avoid unintended side effects during the CI/CD pipeline.

UBS / Merrill Lynch / City National Bank

Senior Registered Client Service Associate

2015 - 2022

- Created an interactive team webpage using a content management system (CMS) by leveraging JavaScript, HTML, and CSS to add responsive and accessible features for a polished user experience.
 - Mentored and onboarded junior team members in financial modeling, investment strategies, and risk management by conducting mock financial presentations and providing feedback for improvement, leading to improved investment performance and client satisfaction.
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OPEN SOURCE

Jobbr - Application Progression Tracker

- Adopted TypeScript to facilitate a more proactive development experience by leveraging TypeScript's static typing system to provide an environment for more enhanced code quality, maintainability, and testability.
- Architected a NoSQL database to store nested data and establish performant data aggregation and querying, while enforcing data structure by utilizing the Mongoose object data modeling library.

MyBookcase - Book Collection Visualizer

- Used React with Hooks to assist in functional logic reusability, more direct management of local component state, and avoiding deep component tree nesting, all for a more intuitive, purposeful, and scalable user interface.
 - Configured server-side logic with Node.js and a SQL database to enable concurrent connections from multiple clients while ensuring data integrity and scalability, resulting in a high-performance, scalable web application.
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EDUCATION & CERTIFICATION

Bachelor of Science | California State University, Long Beach

AWS Certified Cloud Practitioner | Amazon Web Services (AWS)

INTERESTS

When I'm not coding, I love staying active by road biking with friends alongside the San Gabriel River, Crossfit training with my local community, and capturing moments on my DSLR while traveling.