

DAVID SONG

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EXPERIENCE

Software Developer – Consultant

Econify

Jan 2019 – June 2024

- Generated JSON web tokens using randomly generated keys, which removed the need to store sessions in the server
- Implemented route utilities for protected and authenticated frontend routes by reading authentication information from client state and redirecting users appropriately
- consultant company that specialize in building high-performance websites efficiently, often delivering results from day one.
- Engineered custom software solutions for clients, reducing operational costs by 25% through the integration of advanced algorithms and efficient backend systems using Python, SQL, and AWS over a 12-month period.

Software Developer

NBC

Jun 2022 – Dec 2022

- Collaborated with a cross functional team to deliver live primary and midterm election coverage
- Improved performance of the application by moving costly computations into a centralized Vuex store
- Created and enhanced D3 donut charts to preview exit poll data before final election results were in
- Leveraged Websocket.io to stream data real-time into D3 charts on live television
- Optimized caching strategies, including HTTP caching, CDN integration, and front-end caching with Service Workers, resulting in significantly reduced API response times and enhanced website performance.
- Developed a robust API using Node and Express, reducing integration time by 30% and facilitating seamless data exchange between client and server applications.

Software Developer

CNBC

Nov 2021 – Jun 2022

- Guided and instructed team for migration of a large suite of tests from Enzyme to React Testing Library
- Parallelized the Cypress test suite to reduce continuous integration runtimes
- Refactored global event bus to reduce app wide event/action bottlenecks
- Migrated javascript react components to typescript react components.
- Enhanced the live TV schedule page, resulting in a 30% faster data retrieval and display by implementing Axios for asynchronous updates and optimizing backend database queries using GraphQL.

Software Developer

Discovery Networks

Jan 2019 – Sep 2021

- Co-lead developer on editorial curation tool built with react, redux-saga, Node.js
- Develop React components for website receiving 4M uniques per week
- Performed an audit and rewrite of MotorTrend's entire stack, resulting in a performance increase of 650% and revenue spike of 35%. We drove costs down while driving web performance and ad view ability.
- Extend GraphQL queries for consuming client application
- Improve Google Pagespeed Insight CLS scores
- Maintain Google AMP compliant page templates

EDUCATION

Full Stack Web Development

App Academy

Bachelor of Art in Economics

University of California San Diego

SKILLS

JavaScript, Node.js, Vue.js, React, Redux, Express, D3, Next.js, Apollo, GraphQL, Socket.io, Typescript, Python, Golang

PostgreSQL, MySQL, MongoDB, Akamai, Cloudfront, Prisma, Docker, Kubernetes, Jenkins, SASS, Cypress, React Testing Library, Mapbox

HTML/CSS, Webpack, AWS, Heroku, S3, Linux