

David Anderson

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SKILLS

Strong: JavaScript (ES6+), React/React Hooks, React Router, Redux, Node.js, Express, SCSS, CSS, HTML, Git, REST, Webpack, SQL, NoSQL, Electron, CSS libraries, Storybook, jQuery, Test Driven Development (Jest, Enzyme), JIRA, Google Analytics, Agile Development. **Experienced:** GraphQL, Python, Ruby, Ruby on Rails, Typescript, Docker, Kubernetes, Authentication (BCrypt, JWT), Amazon Web Services, Heroku, TravisCI, Bootstrap.

EXPERIENCE

Full Stack Engineer | Kubiquity (Open Source Application)

2021–present

- Utilize Node.js (via Electron) for a fast backend JavaScript runtime environment, allowing for the frontend and the backend to listen on IPC channels to pass cluster data, ensuring the user is notified of all event logs or memory changes stemming from their clusters.
- Create test Kubernetes clusters to produce event logs and memory metrics to be monitored by the Kubiquity application to ensure user satisfaction, compose sprint goals for the development team, and ensure agile development.
- Created a Prometheus instance to retrieve granular CPU and memory metrics from active nodes so that developers can inspect the real-time memory use of deployed Kubernetes clusters and prevent out-of-memory kill errors.
- Build reusable, modular frontend components with React Hooks to define, hold, and update state so as to enforce one-way data flow from parent App components to children components while maintaining minimal renders.
- Build responsive stylesheets to provide consistent colors, spacing, and styling across components for a distinct, singular, and pleasing design and user experience.

Frontend Software Engineer | Pulse Digital

2020

- Used GraphQL to query for detailed data from expansive NoSQL collections, formatted data at the container level, and rendered the data via local, styled components, creating an easy-to-use, intuitive, and fast application for oncologists and drug manufacturers.
- Utilized React Hooks and CSS libraries to compose and style reusable components within the confines of the design system with specific, defined props for local customization to facilitate quick page set up and coherent visual presentation across pages.
- Wrote aggregation pipelines for MongoDB to match fields across collections and return materialized data to remove excessive querying and timely data-matching on the front-end, resulting in decreased time from query to display.
- Used Jest and Enzyme to test and develop global frontend components to advance a test-driven environment.

Senior Software Engineer Technical Instructor | App Academy

2019–2020

- Taught software engineering in JavaScript (ES5 and ES6+), including language-specific intricacies, general coding best practices, and styling to provide a robust overview of the current JavaScript development landscape.
- Code-reviewed algorithms in student assessments to check for correct answers, time complexity, and space complexity to teach efficient development practices and dynamic programming.
- Trained coworkers and developed internal best practices for teaching students to ensure clear and proper technical communication.

Editorial Assistant | Springer Nature

2018

- Used HTML and CSS to update the client-facing websites of 20 academic journals, keeping them up-to-date and visually appealing.
 - Built and maintained monthly, quarterly, and annual reports for 20 journals requiring data analysis and spreadsheet construction, resulting in coherent and uniform reports across journals.
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OPEN SOURCE PROJECTS

Audiyo: an app where users record and share audio straight from their computer mics. Built with React Hooks, Redux, Node, Express, AWS S3.
Infinite Books: a single-page application with an infinite scroll that queries the Open Library API and returns all titles that match a user's search.

PUBLICATIONS AND SPEAKING

- “useHooks: An Overview of, and Case for, React Hooks.” Tech Talk detailing the development of React Hooks. Sponsored by Single Sprout.
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EDUCATION

BA in English Literature and Philosophy | University of Minnesota, Twin Cities

2010–2014

INTERESTS

- Professional comedic writing: wrote thousands of jokes for ClickHole, the Onion's sister site, to be enjoyed by expansive readership.
- For better or worse, an encyclopedic knowledge of the first ten seasons of the Simpsons.