

# Charles Stover

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## Summary

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Software engineer with nearly 20 years of experience in full-stack development and strong background in real world apps.

## Skills

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- *Expert:* HTML5, CSS3, ES6, Express, Git, JavaScript, Node, NPM, React, Redux, TypeScript
- *Proficient:* Chai, Docker, Material UI, Mocha, nginx, PHP, React Native, Sass, SQL, TravisCI, Webpack

## Projects

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- *Asset Protection Hub* – Led full-stack development for the Walmart Asset Protection team in React and Node. Front end included Redux, Material UI, lazy loading data, charts/graphs, and form data entry. Back end included a REST API, Express routing, SQL Server, data compression, and dynamically generated PDFs.
- *CloudWatch Logs* – Migrated the CloudWatch Logs console from GWT/React 14 to React 16, building reusable components and utilities that improve development and delivery speeds. Added fuzzy search capability to resources and modernized state management. Extended the back-end rollback system to support conditional resource creation.
- *CSPage PHP* – Automated webpage optimization utility that caches, compresses, concatenates, and otherwise optimizes HTML, CSS, JavaScript, and static file content distribution. Supports HTML and CSS variables, custom `<if>/<else>` and `<foreach>` HTML tags, YUI compression, and file caching for both static and dynamic files.
- *ReactN* – An open-source extension of React that offers a boilerplate-free, intuitive global state management solution that, at its peak, received over 5,000 weekly installations.
- *RPG Engine* – A browser-based RPG overworld engine programmed entirely in HTML, CSS, and JavaScript. Uses sprite sheets and user input to animate highly customizable game settings and action-triggered events. Maintains backwards compatibility all the way to Internet Explorer 6.
- *WalmartOne* – Developed the WalmartOne mobile application in React Native. Features included state management, single-sign on, and PIN and thumbprint authentication.
- *Innovation Challenge 2017* – Won first place in the ConocoPhillips Innovation Challenge Hackathon by mapping 360-degrees of obstructions as scanned by a remote-controlled robot to a web interface.

## Work Experience

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|---|----------------------------------|----------------|
| <u>Front End Engineer II</u>  | Amazon Web Services, Seattle, WA | 2019 – Present |
| <ul style="list-style-type: none"><li>• Developed new features for the CloudWatch Contributor Insights, Dashboards, Events, and Logs consoles.</li><li>• Migrated CloudWatch Logs to operational independence and a modern tech stack.</li><li>• Worked across teams to support customers, prioritize features, and deliver innovative solutions.</li></ul> |                                  |                |
| <u>Walmart I.T. Consultant</u>  | Kitestring, Bentonville, AR      | 2017 – 2019    |
| <ul style="list-style-type: none"><li>• Developed Asset Protection and Returns software using React and Redux.</li><li>• Developed Asset Protection RESTful API services in NodeJS with Express and MSSQL.</li><li>• Developed Returns and WalmartOne mobile in React Native.</li></ul>   |                                  |                |
| <u>Technical Author</u>   |                                  | 2010 – Present |
| <ul style="list-style-type: none"><li>• Published articles on the optimization of front-end and back-end performance.</li><li>• Published tutorials for JavaScript applications and concepts, primarily with React.</li><li>• <a href="https://charlesstover.com/portfolio/articles">https://charlesstover.com/portfolio/articles</a></li></ul>             |                                  |                |
| <u>Freelance Web Developer</u>  |                                  | 2006 – 2017    |
| <ul style="list-style-type: none"><li>• Modified open-source and proprietary software packages to correct errors and extend functionality.</li></ul>  |                                  |                |

## Education

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Bachelor of Science, 4.0 GPA

University of Central Arkansas, 2013