

Charles Stover

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Summary

Senior front end engineer with 20 years of experience and an expertise in monitoring, operations, JavaScript, and React.

Skills

- *Expert:* CloudWatch, CSS3, ES6, Git, HTML5, JavaScript, Jest, Node, NPM, React, Redux, TypeScript
- *Proficient:* AWS, Chai, Docker, Express, Mocha, nginx, PHP, React Native, Rollup, SASS, SQL, Webpack

Projects

- *Asset Protection Hub* – I led full-stack development for the Asset Protection team in React and Node; built the front end using Redux, Material UI, visualizations, and form data entry; and built the back end as a REST API with Express routing, SQL Server, custom data compression, and dynamically generated PDFs.
- *CloudWatch Container Insights, Contributor Insights, Lambda Insights, Logs, and Logs Insights consoles* – I unified and unblocked cross-continental teams; created reusable components, utilities, and monitoring software that spanned multiple AWS services; improved application monitoring with queryable log events across all of CloudWatch; migrated availability monitoring to a fully cloud-native infrastructure, decreasing false alarms; wrote foundation code that allowed my team to double the number of offered dashboards; and resulted in a 20x larger user base.
- *CSPage PHP* – I automated web page optimization by caching, compressing, concatenating, and otherwise optimizing HTML, CSS, JavaScript, and static file content distribution; supported HTML and CSS variables and custom `<if>/<else>` and `<foreach>` HTML tags; and cached both static and dynamic files.
- *ReactN* – I open-sourced an extension of React that offers a boilerplate-free, intuitive global state management solution that, at its peak, received over 8,000 weekly installations, totalling half a million downloads.
- *RPG Engine* – I wrote a browser-based RPG overworld engine programmed entirely in HTML 4, CSS 2, and JavaScript; used sprite sheets and user input to animate highly customizable game settings and action-triggered events; and maintained backwards compatibility for Internet Explorer 6.
- *WalmartOne* – I developed the WalmartOne mobile application in React Native; and implemented state management, single-sign on, and PIN and thumbprint authentication.
- *Innovation Challenge 2017* – I 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

Senior front end engineer Amazon Web Services, Seattle, WA 2019 – Present

- Migrated my team's products to operational independence.
- Scoped, estimated, tracked, and delegated several cross-team products end-to-end.
- Actively engaged customers and product managers to better understand and improve products.
- Wrote significant portion of code foundation, allowing team to reuse and rapidly iterate features.
- Improved availability, performance, and customer experience monitoring; and automated localization.

Walmart I.T. consultant Kitestring, Bentonville, AR 2017 – 2019

- Developed software and mentored peers on three teams using React (+Native), Redux, Node, Express, MSSQL.

Technical author 2010 – Present

- Published articles on career growth and front end technologies, focusing on JavaScript and React.
- <https://charlesstover.com/publications>

Freelance 2006 – 2017

- Offered end-to-end customer engagement for and delivery of open-source and proprietary software.

Education

Bachelor of Science, 4.0 GPA

University of Central Arkansas, 2013