Charles Stover

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Summary

Staff+ front end engineer (tech lead, architect) with 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

- *2021 – 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.

- 2020 – *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, totaling half a million downloads.

- *2018 – 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.

- *2018 – WalmartOne* – I developed the WalmartOne mobile application in React Native; and implemented state management, single-sign on, and PIN and thumbprint authentication.

- *2017 – Innovation Challenge* – 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.

- *2016 – 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.

- 2012 – *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.

Work Experience

Senior front end engineer	Coalition, Inc.	2021 – Present
Senior front end engineer	Amazon Web Services, Seattle, WA	2019 – 2021

- Migrated my team's products to operational independence.
- Scoped, estimated, tracked, and delegated five 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