Alec **Lavoie**

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Projects

Dispense Deals[1]	*React, TODO, TODO*
Configurable product discounting system	*dispenseapp.com/features/deals*
Indigo Transport Management System[2]	*React, XState, Apollo*
Logistics platform for the agriculture supply chain	*trucking.indigoag.net*
Flow Builder Chrome Extension[2]	*React, Webpack, testing-library*
No code tool used by over 10,000 product and marketing professionals to increase user engagment	*appcues.com/flow-builder*
Database Migration API[2]	*Node.js, Typescript, OpenAPI*
Shim API that performs dual writes/reads to ensure a smooth migration from Firebase to Postgres	*Not public*
Product release/re-stock notification system	*Elixir, Phoenix, PostgreSQL*
Track and store upcoming product releases and notify subscribers via Discord integration	*github.com/alavkx/drip-drop*
Self-service Surety[3]	*Gatsby, Contentful, GQL, Cypress*
E-commerce storefront to browse and purchase from surety bond product catalog	*selfservicesurety.com • bit.ly/2VLPbYj*
Parallel Coordinate Chart[4]	*d3.js, TypeScript, Webpack*
Reusable solution to visualize the relationships between multi-dimensional datasets	*parallel-coordinate.netlify.com*

Work Experience

Dispense[1]
Senior Software Engineer — *Remote* — *July 2022 – Feb 2023*

- Grounded complex workflow designs by introducing Statecharts as a design and development tool
- Documented and resolved page-by-page application lighthouse warnings, critical workflow frame jank, dependency graph bloat (down 60%), and gql cache misses
- Implemented performance montoring systems that deliver live web vitals and performance regression alerting
- Monitored and refined design patterns, collaborating cross-functionally to ensure a consistent and well considered user experience
- Promoted accessible design and asserted our success with a test suite driven by accessible queries

Indigo Agriculture[2]
Front-end Software Engineer — *Remote* — *July 2020 – Jan 2022*

- Grounded complex workflow designs by introducing Statecharts as a design and development tool
- Documented and resolved page-by-page application lighthouse warnings, critical workflow frame jank, dependency graph bloat (down 60%), and gql cache misses
- Implemented performance montoring systems that deliver live web vitals and performance regression alerting
- Monitored and refined design patterns, collaborating cross-functionally to ensure a consistent and well considered user experience
- Promoted accessible design and asserted our success with a test suite driven by accessible queries

Appcues[3]
Software Engineer — *Boston, MA* — *July 2019 – April 2020*

- Increased engineer productivity and work quality by tightening the development feedback loop with modern ops and testing tools
- Facilitated communication and doc/code automation by utilizing language agnostic OpenAPI spec during database migration
- Ensured seamless database migration by creating a shim API that dual writes and reads from multiple targets that improved application boot time and product reliability
- Championed learning culture by mentoring a Junior Engineer and promoting learning resources and workshops
- Resolved customer issues by collaborating with and mentoring support engineers

General Indemnity Group[4]
Software Engineer — *Boston, MA* — *May 2018 – July 2019*

- Showcased bond product catalog by creating a mobile-first, blazing fast e-commerce storefront
- Multiplied user success and conversions by creating and refining a feature-rich (progress-saving, re-marketing, accessible) checkout experience with UX iterations based on analytics funnel
- Reduced operation cost by 40% and increased scalability of content creation and management by designing a headless CMS schema and integrating e-commerce site with GUI admin portal
- Collaborated with acting CTO and VP in order to identify and design high impact low cost solutions

AspenTech[4]   *Bedford, MA*
Software Developer   *Nov 2016 – Apr 2018*

Education

Jun 2021	**Crafting Interpreters**, guide to implement a full-featured efficient scripting language	*Robert Nystrom*
Oct 2019	**ReasonML Conference**, Javascript/React future discussion and workshops	*ReasonConf*
Sep 2019	**Web Development with ReasonML**, ReasonML language introduction	*J. David Eisenberg*
Apr 2019	**React Hooks Workshop**, hands on advanced React patterns using Hooks	*React Training*
Feb 2019	**Javascript Testing - Pro Testing**, bleeding edge testing best practices (feat. Jest and Cypress)	*Kent C. Dodds*
Aug 2016	**Mostly Adequate Guide (to FP)**, foundational functional programming concepts taught using JS	*Brian Lonsdorf*
Jun 2016	**You Don't Know JS**, JavaScript fundamentals deep dive	*Kyle Simpson*
Jun 2016	**BSc. Computer Science**, University of Massachusetts Dartmouth	*Dartmouth, MA*