Alec **Lavoie**

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Projects

Indigo Transport Management System[1]
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

Indigo Agriculture[1]
Remote
FRONT-END SOFTWARE ENGINEER
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[2]
Boston, MA
SOFTWARE ENGINEER
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[3]
Boston, MA
SOFTWARE ENGINEER
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*