

Alec Lavoie

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Experience

Dispense

Remote

SENIOR SOFTWARE ENGINEER, E-COMMERCE STOREFRONT BUILDER

July 2022 – Feb 2023

- Incrementally built out and installed design system elements in to existing and forthcoming features
- Designed and implemented a workflow allowing customers to configure a discounting and promo toolset for products in their catalog
- Secured and organized keys and secrets, distributed via fingerprint cli tool
- Outlined and enacted an RFC-style communication and engineering strategy to resolve outstanding lack of alignment
- Researched data integrity issues with schema introspection tools and designed a potential long-term schema reflection strategy
- Installed an incident data gathering process in order to understand long term architecture re-structuring priorities

Indigo Agriculture

Remote

FRONT-END SOFTWARE ENGINEER, TRANSPORT MANAGEMENT SYSTEM

July 2020 – Jan 2022

- Documented and resolved page-by-page application lighthouse warnings, critical workflow frame jank, dependency graph bloat (down 60%), and gql cache misses
- Implemented performance monitoring systems that deliver live web vitals and performance regression alerting
- Monitored and refined design system patterns, collaborating cross-functionally to ensure a consistent and well considered user experience
- Promoted accessible design and confirmed compliance with a test suite driven by screen-reader compatible element queries
- Grounded complex logistics workflow designs with state-charts

Appcues

Boston, MA

SOFTWARE ENGINEER, FLOW BUILDER CHROME EXTENSION

July 2019 – April 2020

- Increased engineer productivity and work quality by tightening the development feedback loop by documenting prioritizing and executing on outstanding toolchain issues using modern ops and testing tools
- Executed on a multi-part plan to seamlessly live migrate from Firebase to PostgreSQL by engineering a shim API that dual writes and reads from multiple targets, vastly improving application boot time and product reliability
- Championed learning culture by mentoring and promoting learning resources and workshops within the organization
- Resolved customer issues live, collaborating with and mentoring support engineers

General Indemnity Group

Boston, MA

SOFTWARE ENGINEER, SELF-SERVICE SURETY

May 2018 – July 2019

- Showcased bond product catalog with 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

Bedford, MA

SOFTWARE DEVELOPER, UNIVERSAL PROCESS INDUSTRY MANAGEMENT SYSTEM

Nov 2016 – Apr 2018

- Designed and delivered reusable n-dimension interactive parallel coordinate chart
- Identified monitored and resolved brand color deviations by developing a tool that tracks color usage throughout the codebase
- Improved canvas performance by profiling and addressing expensive actions

Education

Current	Hugging Face NLP Course , learn Natural Language Processing using the Hugging Face ecosystem	<i>Hugging Face</i>
Sep 2022	css-for-js.dev , Modern CSS Fundamentals	<i>Josh W Comeau</i>
Jun 2021	Crafting Interpreters , guide to implement a full-featured efficient scripting language	<i>Robert Nystrom</i>
Oct 2019	ReasonML Conference , Javascript/React future discussion and workshops	<i>ReasonConf</i>
Sep 2019	Web Development with ReasonML , ReasonML language introduction	<i>J. David Eisenberg</i>
Apr 2019	React Hooks Workshop , hands on advanced React patterns using Hooks	<i>React Training</i>
Feb 2019	Javascript Testing - Pro Testing , bleeding edge testing best practices (feat. Jest and Cypress)	<i>Kent C. Dodds</i>
Aug 2016	Mostly Adequate Guide (to FP) , foundational functional programming concepts taught using JS	<i>Brian Lonsdorf</i>
Jun 2016	You Don't Know JS , JavaScript fundamentals deep dive	<i>Kyle Simpson</i>
Jun 2016	BSc. Computer Science , University of Massachusetts Dartmouth	<i>Dartmouth, MA</i>