Alec **Lavoie**

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Experience

Dispense
Remote

SENIOR SOFTWARE ENGINEER, E-COMMERCE STOREFRONT BUILDER
July 2022 – Feb 2023

- Progressively integrated design system components into both legacy and new features, enhancing UI consistency
- Engineered a customizable discount and promotion workflow, empowering customers to dynamically manage their product catalog
- Orchestrated secure key and secret management, utilizing a fingerprint-based CLI tool for distribution
- Spearheaded an RFC-based communication framework, realigning engineering and business goals
- Conducted an in-depth audit of data integrity using schema introspection tools, and architected a forward-looking reconciliation strategy
- Implemented an incident data collection pipeline, providing insights for prioritizing architectural overhauls

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, gql cache misses, and slashed dependency graph bloat by 60%
- Deployed real-time performance monitoring solutions, enabling live web vitals tracking and automated regression alerts
- Fine-tuned design system elements through cross-functional collaboration, fortifying UX consistency across the application
- Advocated for and validated accessibility standards, employing a screen-reader-friendly test suite for compliance assurance
- Rationalized intricate logistics workflows through the implementation of state-charts, improving system predictability

Appcues
Boston, MA

SOFTWARE ENGINEER, FLOW BUILDER CHROME EXTENSION
July 2019 – April 2020

- Enhanced engineering efficiency and code quality by streamlining the feedback loop, addressing toolchain bottlenecks through advanced ops and testing methodologies
- Orchestrated a seamless migration from Firebase to PostgreSQL through a dual-read-write shim API, significantly boosting application boot time and reliability
- Fostered a culture of continuous learning through mentorship and curating educational resources and workshops
- Provided real-time customer issue resolution, while coaching and collaborating with support engineers to enhance problem-solving skills

General Indemnity Group
Boston, MA

SOFTWARE ENGINEER, SELF-SERVICE SURETY
May 2018 – July 2019

- Unveiled a mobile-optimized, high-performance e-commerce storefront to feature a comprehensive bond product catalog
- Amplified user engagement and conversion rates by crafting an analytics-driven, feature-rich checkout experience with progress-saving, re-marketing, and accessibility in mind
- Slashed operational costs by 40% and bolstered content scalability through the design and integration of a headless CMS and a GUI admin portal for the e-commerce site
- Partnered with C-level executives to architect high-ROI, cost-effective technical solutions

AspenTech
Bedford, MA

SOFTWARE DEVELOPER, UNIVERSAL PROCESS INDUSTRY MANAGEMENT SYSTEM
Nov 2016 – Apr 2018

- Engineered and deployed a reusable, n-dimensional interactive parallel coordinate chart, enhancing data visualization capabilities for customers exploring relationships in oil properties
- Established a color consistency tool that identifies and corrects brand color deviations across the codebase
- Optimized canvas rendering performance by profiling bottlenecks and implementing targeted optimizations

Education

Current	**Hugging Face NLP Course**, learn Natural Language Processing using the Hugging Face ecosystem	*Hugging Face*
Sep 2022	**css-for-js.dev**, Modern CSS Fundamentals	*Josh W Comeau*
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*