

# Alec Lavoie

✉ alavoie3+dev@gmail.com | 📍 Boston, MA | 🌐 github.com/alavkx

## 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

## Skills

---

**Tech** React, SQL, Next.js, Remix, Tailwind, Cypress, Electron, tRPC, React-aria, Shadcn/ui, XState, TurboRepo

**Spec** Accessibility, Tooling, Design Systems, Performance, Functional Programming, Statecharts, Type Inference

**Lang** TypeScript, Elixir, ReScript

## Education

---

Jun 2016 **BSc. Computer Science**, University of Massachusetts Dartmouth

Dartmouth, MA