

# Alec Lavoie

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I am a person that cares—and I want to work with other people that care. People are willing to pay, and pay extra, for software that is awesome. If you are someone who cares, I'd love to work together.

## Experience

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### Revision Labs

Boston, MA

FOUNDER • WIKIWIZARD, CINEGIST, REVISION

Jan 2022 – Current

- Deployed Custom GPT Agent tuned to answer deep questions about a game using RAG enhanced game-wiki semantic search
- Engineered seamless immersion learning strategy via a rich interactive subtitle experience by digesting a subtitle file into structured annotations, projected on target language medias
- Enabled players to review their games immediately after playing by implementing gameplay auto-capture, video library, and custom video player with annotation capabilities

### Dispense

Remote

SENIOR SOFTWARE ENGINEER • E-COMMERCE STOREFRONT BUILDER

July 2022 – Feb 2023

- Empowered customers to dynamically manage their product catalog pricing by engineering a customizable discount and promotion workflow
- Securely managed and distributed keys and secrets with a fingerprint-based CLI tool
- Provided insights for prioritizing architectural overhauls with an incident data collection pipeline
- Addressed degrading NoSQL data health by conducting an in-depth data integrity audit using schema introspection tools, and architected a forward-looking reconciliation strategy

### Indigo Agriculture

Remote

FRONT-END SOFTWARE ENGINEER • TRANSPORT MANAGEMENT SYSTEM

July 2020 – Jan 2022

- Rolled out fully featured multi-sided logistics marketplace for agriculture product transportation
- 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

### Appcues

Boston, MA

SOFTWARE ENGINEER • FLOW BUILDER CHROME EXTENSION

July 2019 – April 2020

- Significantly improved application boot time and reliability by orchestrating a seamless migration from Firebase to PostgreSQL using a dual-read-write shim API
- Enhanced engineering efficiency and code quality by tightening workflow feedback loop, addressing toolchain bottlenecks using modern ops and testing methodologies

### 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 conversion rates by crafting a funnel-driven, feature-rich accessible checkout experience supported by progress-saving and re-marketing
- 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

### AspenTech

Bedford, MA

SOFTWARE DEVELOPER • UNIVERSAL PROCESS INDUSTRY MANAGEMENT SYSTEM

Nov 2016 – Apr 2018

- Allowed customers to explore relationships between oil properties by designing and releasing an n-dimensional interactive parallel coordinate chart supporting tens of thousands of data points backed by a Canvas based render queue
- Optimized canvas rendering performance by profiling rendering bottlenecks and implementing targeted optimizations

## Skills

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Typescript, React.js, Node.js, Express, Elixir, Machine Learning, NLP, Next.js, Remix.js, Electron, PostgreSQL, MongoDB, GraphQL, REST, Cypress, testing-library, Jest, Mocha, HTML, CSS, Javascript, Figma, Accessibility, tailwind, XState, Redux, Canvas, Webpack, CI/CD, Chrome Extension

## Education

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Jan 2024 **Machine Learning: Regression and Classification**, DeepLearning.AI, Stanford University

Remote

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

Dartmouth, MA