

# Alec Lavoie

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I want to build something remarkable—alongside people who are just as enthusiastic as I am about quality. A team who settles only to outstand. If you are looking for a Full-Stack Engineer driven to create unique experiences, please reach out.

## 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