

# Alec Lavoie

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## Projects

### Flow Builder Chrome Extension

NO CODE TOOL EMPOWERING PRODUCT AND MARKETING TO INCREASE USER ENGAGEMENT

React, Webpack, testing-library  
appcues.com/flow-builder

### Database Migration API

NODE.JS API THAT PERFORMED ALL OPERATIONS TWICE — FOR FIREBASE AND THE MIGRATION TARGET (POSTGRES)

Node.js, Typescript, OpenAPI  
Not available

### Product release/re-stock notification system

TRACK AND STORE UNANNOUNCED PRODUCT RELEASES AND NOTIFY SUBSCRIBERS VIA DISCORD INTEGRATION

Elixir, Phoenix, PostgreSQL  
github.com/alavkx/drip-drop

### Self-service Surety

E-COMMERCE STOREFRONT TO BROWSE SURETY BOND PRODUCT CATALOG

Gatsby, Contentful, GraphQL  
selfservicesurety.com

### Surety Bond Checkout

E-COMMERCE SURETY BOND CHECKOUT EXPERIENCE

React, Webpack, Cypress  
bit.ly/2VLPbYj

### Parallel Coordinate Chart

REUSABLE SOLUTION TO VISUALIZE THE RELATIONSHIPS BETWEEN MULTI-DIMENSIONAL DATASETS

d3.js, TypeScript, webpack  
parallel-coordinate.netlify.com

## Work Experience

### Appcues

SOFTWARE ENGINEER

Boston, MA

July 2019 – April 2020

- Increased engineer productivity and work quality by modernizing ops/testing tooling and practices
- Facilitated communication and doc/code automation by utilizing language agnostic OpenAPI spec during database migration
- Ensured seamless database migration by creating a proxy API that dual writes/reads to/from multiple targets
- Rallied learning culture by mentoring a Junior Engineer and promoting learning resources and workshops

### General Indemnity Group

SOFTWARE ENGINEER

Boston, MA

May 2018 – July 2019

- Showcased bond product catalog by creating a mobile first, performant, SEO friendly static e-commerce storefront
- Improved user success and conversions by creating a feature rich (progress saving, re-marketing, accessible) checkout experience with UX iterations based on analytics funnel
- Reduced operation cost and increased scalability of content creation and management by designing a headless CMS schema and integrating e-commerce site with GUI admin portal
- Assisted in communicating project direction, progress, and roadmap using various organizational tools

### AspenTech

SOFTWARE DEVELOPER

Bedford, MA

Nov 2016 – Apr 2018

## Personal Learning

Dec 2019	<b>Domain Modeling Made Functional</b> , Taming software complexity with typed functional languages	Scott Wlaschin
Nov 2019	<b>Learn Type-Driven Development</b> , Using the compiler to guarantee quality software	Yawar Amin
Oct 2019	<b>ReasonML Conference</b> , Javascript/React future discussion and workshops	ReasonConf
Sept 2019	<b>Web Development with ReasonML</b> , ReasonML language introduction	J. David Eisenberg
Jul 2019	<b>The Little Elixir and OTP Guidebook</b> , Elixir and OTP language concepts	Ben Tai Wei Hao
Apr 2019	<b>React Hooks Workshop</b> , hands on advanced React patterns using Hooks	React Training
Feb 2019	<b>Javascript Testing - Pro Testing</b> , bleeding edge testing best practices (feat. Jest and Cypress)	Kent C. Dodds
Aug 2016	<b>Mostly Adequate Guide (to FP)</b> , foundational functional programming concepts taught using JS	Brian Lonsdorf
Jun 2016	<b>You Don't Know JS</b> , JavaScript fundamentals deep dive	Kyle Simpson

## Formal Education

### University of Massachusetts Dartmouth

BSc. IN COMPUTER SCIENCE

Dartmouth, MA

Sept 2012 – Jun 2016