

Alec Lavoie

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Projects

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 (Hooks), Webpack, Cypress
bit.ly/2VLPbYj*

Parallel Coordinate Chart

PERFORMANT, REUSABLE SOLUTION TO VISUALIZE AND EXPLORE THE RELATIONSHIPS BETWEEN MULTI-DIMENSIONAL DATA

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

IntelliRay User Interface

LCD AND PC USER INTERFACE FOR EMBEDDED MICROCONTROLLER BASED ULTRA-VIOLET CURING OVEN

*C Language
youtu.be/Cm2gWLOxiKA*

Skills

Technologies: Gatsby, Webpack, d3.js, React, React Hooks, Ramda, GoJS, Cypress, Jest, Netlify, Contentful

Specializations: Functional Programming, Accessibility, JAM Stack, Single Page/Hybrid Applications, Performance

Languages: JavaScript, TypeScript, Node.js, C, Bash

Learning

Apr 2019	React Hooks Workshop , Hands on advanced React patterns using Hooks	<i>React Training</i>
Feb 2019	Javascript Testing - Pro Testing , bleeding edge testing best practices (feat. Jest and Cypress)	<i>Kent C. Dodds</i>
Aug 2016	Mostly Adequate Guide (to FP) , foundational functional programming concepts taught using JS	<i>Brian Lonsdorf</i>
Jun 2016	You Don't Know JS , JavaScript fundamentals deep dive	<i>Kyle Simpson</i>

Work Experience

General Indemnity Group

Boston, MA

SOFTWARE ENGINEER

May 2018 – Present

- Utilized a distributed system to allow non-engineers to add/edit the product catalog and marketing copy
- Created a mobile first, highly performant, SEO friendly static e-commerce storefront to showcase product catalog
- Worked alongside one other engineer to create a feature rich (progress saving, re-marketing, accessible) checkout experience instrumented with various analytics tools with iterations based on analytics funnel in order to optimize for user success
- Used various organizational tools to assist in communicating project direction, progress, and roadmap

AspenTech

Bedford, MA

SOFTWARE DEVELOPER

Nov 2016 – Apr 2018

- Identified and resolved blocking/expensive actions around the application to improve perceived performance
- Created tool to map and explore costs, sales, and raw good attributes
- Performed significant refactors to legacy components and views in order to secure the longevity of the codebase
- Communicated effectively across an asynchronous team located in both Bedford and Beijing

Uvitron International

West Springfield, MA

SOFTWARE DEVELOPER

Jun 2015 – Sep 2015

- Wrote keypad-driven menu system that served as the interface for all possible system actions
- Hooked in to microcontroller API and various sensors to report and handle system hardware errors

Education

University of Massachusetts Dartmouth

Dartmouth, MA

BSC. IN COMPUTER SCIENCE

Sep 2012 – Jun 2016