Alec **Lavoie**

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Projects

Self-service Surety   *Gatsby, Contentful, GraphQL*
E-COMMERCE STOREFRONT TO BROWSE SURETY BOND PRODUCT CATALOG   *selfservicesurety.com*

Surety Bond Checkout   *React (Hooks), Webpack, Cypress*
E-COMMERCE SURETY BOND CHECKOUT EXPERIENCE   *bit.ly/2VLPbYj*

Parallel Coordinate Chart   *d3.js, TypeScript, webpack*
PERFORMANT, REUSABLE SOLUTION TO VISUALIZE AND EXPLORE THE RELATIONSHIPS BETWEEN   *parallel-coordinate.netlify.com*
MULTI-DIMENSIONAL DATA

IntelliRay User Interface   *C Language*
LCD AND PC USER INTERFACE FOR EMBEDDED MICROCONTROLLER BASED ULTRA-VIOLET CURING OVEN   *youtu.be/Cm2gWL0xiKA*

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 (novice), Bash

Learning

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

Work Experience

General Indemnity Group   *Boston, MA*
SOFTWARE ENGINEER   *May 2018 – Present*
  • Created a mobile first, highly performant, SEO friendly static e-commerce storefront to showcase bond product catalog
  • Worked alongside one other engineer to create a feature rich (progress saving, re-marketing, accessible) checkout experience with UX
    iterations based on analytics funnel in order to improve user success and conversions
  • Empowered non-engineers to make changes to the product catalog and marketing copy by sourcing content from a headless CMS
  • 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   *Sept 2012 – Jun 2016*