

# Alex Bennett

Software Architect & Engineer

Software Engineer & AWS Certified Cloud Architect with 10+ years experience building comprehensive technology solutions across many industries. Subject matter expert in MFE architecture patterns, OSS contributor, conference speaker, and life-long learner. Let's build something great, together.

## **MFE Architect, Experian — 2023-Present**

Architect on the Architecture Modernization Enablement Team in Experian's D2C web org. D2C owns [usa.experian.com](https://usa.experian.com), services millions of DAU, and is the producer of many business-critical, revenue bearing products. Responsibilities include: Designing a MFE Architecture, hands-on delivery of new platform capabilities, providing technical guidance for Product and Platform Eng. teams, modernizing software supply chain with regard to compiler usage, establishing industry Architecture best practices, building roadmaps, planning, coordination, and authoring documentation.

Technologies: AWS, React, Angular, Lit HTML (web components), node.js, webpack, module federation, typescript, Java, GraphQL/Apollo.

## **Sr. Software Engineer, Product Science — 2022-2023**

Built an advanced performance profiler UI using a canvas-based React app. This profiler consumes CPU traces and renders flame graphs. Additionally, this application provides many robust features I had the honor to build such as flame graph comparison, Main Execution Path calculations for multithreaded traces, as well as synchronization between video and CPU traces. This work required a solid understanding of computer science and data structures and algorithms.

Technologies: GCP, React.js/React Native, Kotlin, Typescript.

## **Senior Architect I, Lululemon — 2021-2022**

Responsible for the application architecture of everything up to "Add to Bag" on [shop.lululemon.com](https://shop.lululemon.com). Worked with the creator of Module Federation on the platform team to evolve the MFE application architecture of the FE and MT tier layers. Worked with customer stakeholders around the org to create solutions to meet their respective needs. Collaborated with managers, directors, and VPs to fundraise and set strategic roadmaps for product and platform teams each quarter. Bridged gaps between product and SRE teams. Championed observability and performance in the product engineering space. Hands-on delivery work, mentorship, and pair programming.

Technologies: AWS, React.js/Next.js, Node.js, CMS, Typescript, Webpack, Module Federation.

### **UI Architect, Securian Financial — 2020-2021**

Helped lead a digital transformation. Collaborated with architects across the organization to create new systems using Apollo/GraphQL + microfrontends. Lead the UI development of channel partner UI applications using typescript, react and react-query. Author of “Create Securian App”, the starting point for new react projects. A webpack-based, “batteries-included” starting point for developing react apps with support for typescript, jest, testing-library/react, CSS modules, and more. Contributor to shared code bases such as storybook component library. Mentor to team regarding JavaScript, react, and UI development practices. Championed keyboard-navigable and accessible web UIs. Managed the development of react projects that were outsourced to Mphasis development team in India.

Technologies: AWS, React.js, Typescript, Webpack, GraphQL/Apollo, Java.

### **UI Architect, Seaspan Corporation — 2018-2020**

Built a technology team from scratch, created a culture of software development, and architected front end applications for a 7 billion dollar company. Set up software development processes, architected and implemented a Micro Frontend Architecture to support many feature development teams across 3 applications, interfaced with C-suite and VP-level stakeholders to gather business goals and requirements.

Technologies: AWS, React.js, Webpack, GoLang

### **Sr. Software Engineer, Miner & Kasch — 2017-2018**

Worked along side a team of Data Scientists to create end-to-end solutions.

*Clients and Projects:*

DJCity: Added features to an angular.js/python flask application.

Merck pharmaceutical: Added features to a Data Profiler React/Java Spring app.

Technologies: AWS, React.js, Angular.js, Typescript, Columnar Databases, Python, Java.

### **Web Developer, MapQuest — 2016-2017**

*Projects:*

Mapquest.io: Responsible for green field development of mapquest.io UI in typescript, Angular, node.js, and Postgres. Set up hosted environments for UI, DB, and Server in Amazon S3, Elastic Beanstalk and RDS. Built continuous integration and deployment pipelines using Jenkins multi pipelines, written in groovy. Worked with the ELK stack (Elasticsearch, logstash and Kibana. Paired with senior back end developers on a Scala play backend. Employed TDD / Kanban / Agile methodologies.

Mapquest.com: Wrote Angular.js on front end and Scala (Play Framework) on back end. Delivered the Route Planner feature, allowing users to add many stops to a route.

Developer.mapquest.com: Implemented a complete redesign of a 50 page Drupal site. Worked in a LAMP stack, writing HTML5, CSS3 / SCSS , JS, and PHP.

Business.mapquest.com: Implemented a static marketing site using HTML5, SCSS, and JS (ES6)

Devblog.mapquest.com: Maintained and implemented new features, working with AMP CMS. Wrote twig templates, JS, PHP, HTML5 and SCSS.

**Lead Designer and Front End Developer, StudentIDeals — 2012-2015**

Built, Co-Founded, and grew an e-commerce start-up from 0 to 50k users in 1.5 years. Product manager, designer and front end developer of four digital products. Two websites: one LAMP stack and one wordpress. And two mobile apps: one native iOS and one Titanium Appcelerator.

**EDUCATION**

Occidental College, Los Angeles, CA — Diplomacy and World Affairs, 2013

ArtCenter College of Design, Pasadena, CA — Business and Design Management, 2013

Galvanize Inc, Denver, CO — Web Development, Computer Science 2015