

# MICHAEL KALISH

## CONTACT

kalishmichael@gmail.com  
(703) 463-0849  
[github.com/mkalish](https://github.com/mkalish)  
[linkedin.com/in/mqkalish](https://linkedin.com/in/mqkalish)  
[angel.co/michael-kalish](https://angel.co/michael-kalish)

## EDUCATION

**University of Virginia 2008–2012**

- BA in Computer Science
- BA in Cognitive Science

## SKILLS

- Scala
- Javascript/Typescript
- React
- Angular
- Docker
- AWS
- Postgres
- MongoDB

## CERTIFICATES

- MongoDB Certified Developer

## VOLUNTEER

- Code for DC Brigade Co-Captain
- Code4Life Instructor

## PROJECTS

### ANC Finder

Tool to enable residents of the District of Columbia to find their ANC.

### Open Data DC

Open data portal maintained by Code for DC.

### DC Campaign Finance

Data visualizations based on the DC Board of Elections campaign contribution data.

### Code for DC Website

Website for the Code for DC organization.

## SUMMARY

Michael Kalish is a software engineer with experience crafting high-quality applications using a variety of technologies, such as Scala, React and Docker, as well as leading high-performing, cross-functional teams.

## EXPERIENCE

### **Principal Software Engineer, Learning Objects Inc.**

**Washington, D.C., 2016–Present**

Led cross-functional engineering teams to deliver high-value features for an analytics-driven learning management platform that provides valuable insights to content developers and instructors.

- Designed and implemented a continuous delivery pipeline using Jenkins, AWS EKS, and Docker containers that improved the release cadence from six weeks to daily
- Implemented a custom fetch library in Typescript used to provide a consistent way for teams to interact with a backend API to increase the velocity of development
- Wrote the front-end components and a backend API in React and Scala to enable instructors to make customizations to centrally authored education content to increase the adoption of Open Education Resources
- Responsible for hiring decisions and mentoring a cross-functional team; team successes include: 100% automated coverage of multiple applications using Selenium and a performance suite using Gatling

### **Senior Software Engineer, Learning Objects Inc.**

**Washington, D.C., 2015–2016**

Worked primarily in React and Scala on a high-functioning team tasked with creating and maintaining a competency-driven learning management platform.

- Re-implemented the API and designed an immutable data model for a content management tool using Scala and Postgres to enable learning designers and instructors to track the efficacy of content changes over time
- Implemented both the front-end components and backend API in React and Scala, respectively, for a competency-aligned grading rubric that enabled instructors to assess the efficacy of their teaching by linking it to competencies tied to grading criteria

### **Consultant, Red Hat Inc.**

**Tyson's Corner, Virginia, 2012–2015**

Worked with clients to evaluate, design, and develop software with an emphasis on utilizing the best open-source solutions available.

- Wrote key front-end architectural solutions in Angular, including a custom AJAX wrapper and core UI components, for the rewrite of a client's customer-facing application and oversaw the team that used these components to build the functional areas of the application
- Implemented the front-end components and state management in Angular and RaphaelJS for an application that included an on-demand timeline of customer interactions
- Designed and implemented an internal tool using jQuery, Spring MVC, and Apache POI that converted raw customer service call times and outcomes into summative Excel reports