

Ryan Tracey - Full Stack JavaScript Software Engineer

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I am a pragmatic full stack JavaScript engineer with over 12 years of industry experience. I focus on writing clean, testable, containerized code that scales.

Professional History

SENIOR APPLICATION DEVELOPER - MARKETING (05/2019 - Present)

Red Hat Canada (IBM), Remote

AccountIQ - Account-Based Marketing Platform

- With millions of discrete marketing engagements being captured annually, there was a need to simplify the data and highlight trends within target accounts.
- On a weekly basis, thousands of accounts are summarized, using small engagement signals to surface highly actionable ones.
- With hundreds of monthly active users, the platform has greatly improved marketing and sales workflows and outcomes.

MO-Hub - Marketing Campaign Management

- Having hundreds of marketers across the globe, creating consistent, trackable marketing campaigns and events is a sizable problem.
- MO-Hub centralizes these workflows by ensuring proper data entry as well as integration with Salesforce CRM, Eloqua email automation, and accounting systems.
- A migration from a heavily customized legacy Salesforce instance to a streamlined modern instance, requires our team to implement a new solution for campaign storage and integration.
- The solution, code-named Nimbus, is currently in development. A suite of microservices and new data stores will replace the aging CRM in Q2 2023.

OpenShift (Kubernetes), MongoDB, MySQL, Node.js, TypeScript, GraphQL, React, Lerna, PatternFly, GitLab

SOFTWARE ENGINEER - PERSONAL FINANCE (08/2016 - 04/2019)

Rocket Loans (Rocket Mortgage), Detroit, MI

- Lending is highly regulated industry and must be handled with utmost care. Ensuring customers meet all eligibility criteria before a loan is closed is a challenging problem to solve.
- A checklist mechanism, to synchronize the outstanding tasks between the customer and the operations team was created. I played a major role in delivering this project.
- Over time, this solution led to simplified workflows for the operations team and improved expectations for loan clients.

AWS, DynamoDB, Node.js, Docker, React, Angular.js, ES6, Webpack, Babel

SOFTWARE ENGINEER - HUMAN RESOURCES (10/2015 - 08/2016)

JustSift (Rocket Mortgage), Detroit, MI

- Built out a highly scalable SaaS-based employee directory application called Sift
- Sift consists of a mobile-ready Angular JS front-end which is served via CloudFront CDN (AWS)
- The API is OAuth2 authenticated, featuring a full-text search implemented in Elasticsearch, built on Node.js/Express and is multi-tenant ready at its core
- The Angular JS app is built using cutting edge tools like Browserify, Gulp and Babel
- The entire app (front and back end) is written modularly using ES6
- Modularity was achieved using NPM modules and sophisticated custom tools that I wrote to implement versioning across the 8 Github repos that compose Sift

AWS, Elasticsearch, Node.js, Angular.js, Stormpath/OAuth2, ES6, Browserify, Babel

LEAD SOFTWARE ENGINEER – SOCIAL NETWORKING (9/2014 – 10/2015)

Rock Ventures (Rocket Mortgage), Detroit, MI

SOFTWARE ENGINEER – TITLE INSURANCE (9/2013 - 9/2014)

Amrock (Rocket Mortgage), Detroit, MI

Technical Skills

Languages: JavaScript, HTML5, CSS3, Sass/Less, JSON, Yaml, Markdown, C#

JavaScript: TypeScript 4+, ECMAScript 4-13, Node.js, Express, Next.js, React/Redux, Angular 1-4, Gatsby.js, Socket.io, Passport.js, Vogels, Mongoose, jQuery, Ramda/Lodash

Databases: DynamoDB, MongoDB, MySQL, Neo4j, Elasticsearch

Testing: Jest, Mocha, Sinon, Chai, Cypress

Code Quality/DX: ESLint, Prettier, Storybook, Plop.js, GitHub Copilot

Cloud:AWS: CloudFront, EC2, IAM, Lamda, RDS, Route 53, S3, SES, SQS, VPC

Build Tools: TSC, Webpack, Babel, NPM, Lerna/NX, Gulp, GitLab CI, Jenkins, Docker/Podman

Education	Certifications
Fall 2003 - Summer 2007	12/2019 - 12/2022
Honours Bachelor of Applied Science	AWS: Certified Solutions Architect
University of Windsor, Windsor, ON	
Concentration: Electrical and Computer Engineering	

Hobbies

Gaming, kayaking, fishing