

# Ryan Tracey - Full Stack JavaScript Software Engineer

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

## Professional History

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

#### Red Hat (IBM), Remote

With millions of individual marketing engagements captured online, at in-person events, and through partners, there was a need to aggregate and surface this data by customer account. The resulting dashboard greatly improved marketers ability to target existing and potential accounts.

- Currently working as a full stack engineer on an account-based marketing platform deployed on Open Shift
- The UI is built with an emphasis on component driven development and is heavily unit and end to end tested
- The app extensively uses MongoDB aggregations and queries, MySQL stored procedures, and RPC
- I have created repeatable processes for scaffolding API endpoints, middleware, components, pages, and unit tests
- I am responsible for many domains including UI architecture, API development, and DevOps

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

### SOFTWARE ENGINEER - PERSONAL FINANCE (08/2016 - 05/2019)

#### RocketLoans (Quicken Loans), Detroit, MI

- Built out a highly scalable personal loan application hosted on AWS as a full stack engineer
- The app is capable of automated underwriting and employs the micro-services pattern
- I was responsible for many domains including UI architecture, API development, and DevOps

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

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

#### JustSift (Quicken Loans), Detroit, MI

- Built out a highly scalable SaaS-based 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
- The Sift architecture is something that I am extremely proud of building and I've learned a lot from it

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

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

### Rock Ventures (Quicken Loans), Detroit, MI

- Lead agile development efforts in a stealth start-up funded by [Dan Gilbert](#)
- The first phase of the project was to convert an ASP.NET MVC 5 app to an Angular JS front-end with an ASP.NET WEB API 2 powered API (SignalR 2, Entity Framework 6, SQL Server 2012)
- We subsequently performed a complete rewrite in Node.js/Express and leveraged the mighty relational power of a graph database (Neo4j)
- Our AngularJS and Socket.io front-end was served via CloudFront CDN
- Authentication was handled via Facebook and basic forms strategies from Passport.js

AWS, AngularJS, Node.js, Socket.io, Neo4j, Redis, SASS/Compass

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

### Title Source (Quicken Loans), Detroit, MI

- Helped create NexsysDataSolutions.com, a B2B ancillary mortgage services portal
- Worked as a full stack .NET developer on an Agile team with four developers and three business analysts
- Implemented dynamic forms, advanced security filters and Angular.js single page applications

ASP.NET MVC 4, SQL Server 2012, jQuery, AngularJS, HTML5, CSS3

## Technical Skills

**Stacks:** MERN, MEAN

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

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

**Databases:** DynamoDB, MongoDB, MySQL, Neo4j, Elasticsearch, SQL Server 2008/2013

**Testing:** Jest, Mocha, Sinon, Chai, Cypress

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

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

**Build Tools:** TSC, Webpack, Babel, Gulp, Grunt, NPM, GitLab CI, Jenkins, Docker/Podman

## Education

*Fall 2003 - Summer 2007*

**HONOURS BACHELOR OF APPLIED SCIENCE**

**University of Windsor, Windsor, ON**

Concentration: Electrical and Computer Engineering

**Certifications**

**AWS** - Certified Solutions Architect (12/2019 - 12/2022)

**Hobbies**

Online gaming, kayaking, fishing