

# Rob Toombs

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## Skills

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**Tools:** Git/Bitbucket, Webpack, Gradle/Maven, Concourse/Jenkins, Veracode/SourceClear, DeltaXML, Okta

**Tech:** Docker, Spring, Hibernate, GraphQL, Puppeteer/Cucumber, AWS (Lambda, Fargate, ALB/NLB, Route 53, Cognito, DynamoDB, SQS/SNS, S3, Step Functions, CloudFormation, CDK)

**Languages:** Java, Kotlin, Go, Python, Elm, PostgreSQL, XSLT/XPath

## Experience

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**Principal Associate**, Capital One – Boston, MA 2023 – Present

- Worked cross team to develop a step function based auditing solution for providing real time information on outbound customer collections calls
- Built a "work around" solution to support Kohl's agents access to Capital One resources in the event of an Island Browser service outage utilizing a NGINX proxy server hosted in ECS behind a NLB/ALB with outage based cross region routing
- Led the modernization of an outdated Java 8 EC2 API into a Go Fargate API, while decreasing the code base by ~60%, increasing test coverage to over 90%, and increasing transaction per second throughput from ~300 TPS to 1000+ TPS
- Led the development of a content service API designed to increase content availability resilience for frontend services, decrease response times, and eliminate complicated business knowledge requirements for UI content retrieval
- Mentored Boston school students in learning basic website development fundamentals as part of Capital One Coders

**Software Engineering Team Lead**, Shields Health Solutions – Stoughton, MA 2018 – 2023

- Spearheaded an architectural change from an activity driven application to a patient-centric application, implementing the initial POC, database change requirements, while handling communication with impacted engineering and business stakeholders regarding data migrations, auditing, and reporting
- Created the TelemetryRx questionnaire engine which translates JSON templates into complex questionnaires with a limitless number of questions, question types, inner question associations and interactions
- Created a tool to automate Eligibility Verification (E1) and Claim Billing (B1) test claims through RelayHealth to dramatically improve end user productivity
- Responsible for our UI overhaul from Elm 0.18 to Elm 0.19.1, resolving multiple breaking changes, managing deprecated libraries, and implementing a brand-new testing framework while limiting developer transition time

**Senior Software Engineer**, OpenText (acquired from Dell EMC) – Norwood, MA 2013 – 2018

- Researched, designed, developed, and documented configuration management tools for easily exporting, importing, viewing, comparing, and merging of Documentum D2 configurations
- Leveraged DeltaXML in conjunction with XSLT, HTML, CSS, and jQuery to create a simple, intelligent, browser-based configuration merge tool to greatly reduce customer software version upgrading times

**Software Engineer Co-op**, Goodrich ISR Systems (now UTC Aerospace Systems) – Westford, MA 2011 – 2012

- Developed an "MS Paint-like" feature for marking up SYERS-2 imagery with coordinate based annotations
- Created functionality to read and write Shapefiles to overlay third-party annotations onto SYERS-2 imagery

## Projects

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- **Docker Kata!:** A series of individual exercises used to learn the basics of docker, how to dockerize various components, and connect them all in a docker network to create a full stack application
- **Tech Stack POC:** A full stack application consisting of three front-end applications written in Elm/Vue/Flutter running on separate containers, a single back-end container hosting a Kotlin/Quarkus application, a Postgres container, and an Nginx proxy container handling seamless routing between each front-end app
- **rob-toombs.com:** Single-page Svelte/Typescript app hosted in S3, distributed through CloudFront, user sign up/in integration and OAuth 2.0 flow using Cognito, and API Gateway providing secured access to a Go Lambda backend content engine

## Education

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**Northeastern University** – BS in Computer Science

2013

**AWS Certified Developer Associate** – WZKMOVSCJYJB41JSE

2023 – 2026