

Rob Toombs

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Skills

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

Tech: Docker, Spring, Hibernate, GraphQL, Puppeteer/Cucumber, AWS (Lambda, Fargate, ALB, Cognito, DynamoDB, DocumentDB, S3, CloudFormation)

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

Experience

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

- Led the modernization of an outdated Java 8 EC2 API into a Go Fargate API, while decreasing the code base by ~60%, increasing test coverage to over 90%, and increasing transaction per second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 in 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
- Handled on-call PagerDuty activities, participated in AWS system failover events, and data recovery events
- 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
- Led many security design changes from input sanitization, user scope/permission handling, to Spring Security upgrades and Veracode/SourceClear compliance
- Conducted code reviews, lunch & learns, katas, and paired programming sessions to quickly onboard new engineers while developing skills in junior and senior members alike
- Provide a point of contact layer between the engineering team and management to facilitate story requirement feasibility, clarifications, impact, and breakdown

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

- **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 (WIP):** Secured S3 static hosted site distributed through CloudFront, user sign up/in integration and OAuth 2.0 flow through Cognito, API Gateway providing secured access to a Golang Lambda backend content engine

Education

Northeastern University – BS in Computer Science

2013

AWS Certified Developer Associate – WZKMVSCJYJB41JSE

2023 – 2026