Robert Toombs

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KNOWLEDGE

Technologies Java, Elm, Hibernate/JPA, SQL, XSLT/XPath, Owasp/AntiSamy, DeltaXML, Postgres, Gradle, Spring Boot, Docker
Tools   IntelliJ, Git/Bitbucket, pgAdmin 4, npm, Concourse CI, Webpack, Docker, AWS S3

EXPERIENCE

2018-08-present **Senior Software Engineer**
Shields Health Solutions / Stoughton, MA

- 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
- Identified, diagnosed, and resolved many performance bottlenecks to bring HTTP response times from tens of seconds (sometimes minutes) down to industry standards
- Created the TelemetryRx questionnaire engine which translates JSON templates into complex questionnaires with a limitless amount 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 UI 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 help quickly onboard new engineers and develop skills in junior and senior members alike
- Assisted in story creation, breakdowns, and pointing for our two week sprint cycles
- Developed Bootstrap inspired UI Elm components for use throughout the TelemetryRx application to speed up front-end development time and improve UI consistency

2013-06 - 2018-07 **Senior Software Engineer**
OpenText (acquired from Dell EMC) / Norwood, MA

- 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

2012-07 - 2013-04 **Software Engineer Co-op**
The Achievement Network / Boston, MA

2011-07 - 2011-12 **Software Engineer Co-op**
Goodrich ISR Systems (now UTC Aerospace Systems) / Westford, MA

- Developed a MS Paint-like feature for marking up imagery with coordinate based annotations
- Developed a feature to read/write shape files to overlay third-party annotations on Goodrich imagery

2010-07 - 2010-12 **Software Engineer Co-op**
Harris Corporation / Chelmsford, MA

EDUCATION

2008-09 - 2013-05 **Bachelor of Science in Computer Science**
Northeastern University / Boston, MA

PROJECTS - github.com/RobToombs

Ray Tracer – developed a ray tracing renderer in C# which implemented reflection and refraction optical effects with both global illumination and spot lighting over a variety of objects created from spheres and triangles

Image Pattern Matcher – developed a program, where given a set of pattern imagery and a set of source imagery, is capable of finding occurrences of the pattern images in the source imagery for JPEG, GIF, and PNG image formats

Stock Project – full stack web application as a showcase of technology using many of today's current technology like Kotlin, SpringBoot, Elm, Postgres, Docker, and more!

Tech Stack POC – 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 a Nginx proxy container handling seamless routing between each front-end app