

William Ona

Software Development Engineer in Test



Industry Equivalency

17

Java

14

SQL

14

Angular 4

12

TestNG

10

Selenium / WebDriver

Equivalency in months

ABOUT ME

I am a Software Development Engineer in Test with extensive experience in the creation and testing of applications consisting of multiple tiers. These applications employed the use of technologies such as HTML, JavaScript, Bootstrap, Angular, Java, Hibernate, JDBC, and OracleSQL while JUnit, TestNG, Selenium, Jasmine and Protractor were used for testing. In addition, I have experience leading a team using Agile development methodology in order to develop and test said projects.

- Substantial experience with **HTML, JavaScript, Bootstrap, Angular, Java, Hibernate, JDBC** and **OracleSQL**.
- Extensive testing experience with **JUnit, TestNG, Selenium, Jasmine** and **Protractor**.
- Implemented end to end and unit testing on **Angular** applications using **Protractor, Jasmine**, and **Karma**.
- Utilized **Selenium WebDriver** to perform automated end to end testing on applications.
- Created test suites for Behavioral and Data Driven Testing using **Cucumber** and **JUnit**.
- Tested **SOAP** and **REST** endpoints with **Postman** and **SOAPUI**
- Conducted unit tests using **JUnit** and **TestNG**.
- Architected structure of web pages using **HTML** while **CSS** was used to affect styles and visual appearance.
- Employed **Bootstrap** framework in order to create more responsive web application front-ends.
- Leveraged **JavaScript/TypeScript** in order to develop web applications with more functionality.
- Utilized **Angular** directives to construct single-page applications with one and two-way data bindings.
- Coded **Ajax** subroutines to retrieve **JSON** data from **servlets** to be displayed on a web page.
- Designed **REST** services for consumption.

- Constructed **OracleSQL** database, managed on the Java-side using **Hibernate** and **JDBC**.
- Created a fully automated DevOps pipeline using an **AWS EC2** server managed using **Jenkins** along with **Maven** and **Git**.
- Led team through a sprint utilizing Agile methodology.



Education & Certification



Master - Biomedical Engineering

 Saint Louis University - Aug 2018



Bachelors - Biomedical Engineering

 St. Louis University - May 2017



Skill Matrix

All durations represent Equivalency

Testing



- JUnit (12 Months)
- TestNG (12 Months)
- Selenium (10 Months)
- Postman (8 Months)
- SOAP UI (6 Months)

Languages



- Java (17 Months)
- OracleSQL (14 Months)
- JavaScript (12 Months)
- TypeScript (12 Months)
- HTML/CSS (14 Months)

Web Technologies



- HTML/CSS (14 Months)
- Bootstrap (14 Months)
- Angular 7 (14 Months)
- JavaScript (12 Months)
- TypeScript (12 Months)

Testing

- JUnit
- TestNG
- Selenium
- Postman
- SOAP UI
- Cucumber
- Protractor
- Jasmine

Languages

- Java
- OracleSQL
- JavaScript
- TypeScript
- HTML/CSS
- Matlab
- Gherkin

Web Technologies

- HTML/CSS
- Bootstrap
- Angular 7
- JavaScript
- TypeScript
- AJAX

Database Layer



- OracleSQL (14 Months)
- SQL Developer (14 Months)
- Hibernate (8 Months)
- JDBC (12 Months)
- AWS RDS (6 Months)

Java Web



- Servlet API (14 Months)
- Restful Web Services (6 Months)
- Jersey (6 Months)
- SOAP Web Services (5 Months)
- JAX-RS (5 Months)

DevOps



- Amazon Web Services (8 Months)
- Jenkins (6 Months)
- Git (12 Months)
- Maven (12 Months)
- Continuous Integration (6 Months)

Database Layer

- OracleSQL
- SQL Developer
- Hibernate
- JDBC
- AWS RDS
- PL/SQL

Java Web

- Servlet API
- Restful Web Services
- Jersey
- SOAP Web Services
- JAX-RS
- JAX-WS

DevOps

- Amazon Web Services
- Jenkins
- Git
- Maven
- Continuous Integration
- Unix



Projects

TrackForce

The TrackForce system allows a manager to track the life cycle of associates moving into different stages such as training, reserved, selected, confirmed, deployed and other stages. The metrics of mapped and unmapped resources gives a preview of associates available for a client mapping which enables the management team to plan for future goals. The focus of future batches and the historical data of associates trained at any point of time provides clear insight to meet our client needs

Roles / Responsibilities

- Ensured proper behavior of individual components in backend using TestNg.
- End to end front-end testing on the Angular side using Protractor.
- Used Cucumber to translate BDD requirements into test suites.
- Coded requests from Angular front-end using Jersey REST controllers.
- Utilized HTML and CSS to structure front-end of application.
- Employed Angular components and services for business layer logic.
- Reviewed code for quality assurance and before merging code into GitHub repository.
- Performed version control of code using Git.

Environment / Technologies

Git, Jenkins, SQL, Hibernate, REST, HTML, CSS, EC2, RDS, Maven, Node.js, Selenium / Webdriver, Cucumber, TestNG, JavaScript, AJAX, JUnit, Log4J, Angular 4

Sahara

Sahara is a user-friendly platform for customers to buy and sell their goods. Users can undertake different roles and can either assume the position of a customer, merchant, shepherd or overseer. Customers can browse the list of available items, add products to their cart and checkout, while merchants can view items and submit items to be approved for sale. Overseers assume the role of an item appraiser and are able to moderate the quality of goods being contributed by the merchant. They have the capability to approve or deny products submitted by the merchant. Items must be approved to become available on the list of items that a customer may purchase. Shepherds are the moderators of customers. They have the ability to view user information as well as give approval to items and submit a review of particular items.

Roles / Responsibilities

- Setup front-end unit testing with Jasmine.
- Utilized HTML and CSS to create a visually appealing appearance for the application.
- Constructed single page application navigation using routing in Angular.
- Created page components and services for business layer in angular.
- Designed a shopping cart using angular observables that would save user-selected items for purchase in the future.
- Coded transaction functionality to allow customers to purchase items by hitting servlet from the front-end.
- Implemented ability for merchants to contribute items to be listed using Angular TypeScript functions and directives.
- Performed version control of project using Git.
- Led team through sprint using agile methodology.

Environment / Technologies

Java, Hibernate, REST, SQL, HTML, Bootstrap, CSS, Git, Angular 4, Selenium / Webdriver, Cucumber, TestNG

TRMS

The Tuition Reimbursement System, TRMS, allows users to submit reimbursements for courses and training. The submitted reimbursement must be approved by that employee's supervisor, department head, and benefits coordinator. The benefits coordinator then reviews the grade received before finalizing the reimbursement.

Roles / Responsibilities

- Tested backend with JUnit tests to verify DAO behavior.
- Designed structure of front-end using HTML and CSS.
- Employed JavaScript to reinforce form validation from user inputs.
- Implemented transaction management using servlets and Http Session data.
- Fabricated application messaging system using servlets to input and fetch data from database.
- Created Java beans and DAOs that related objects to database tables.
- Constructed Oracle Database using Oracle SQL to allow for user data persistence.
- Utilized JDBC to allow Java access to Oracle database.
- Used Git to perform version control of project.

Environment / Technologies

Servlets, Java, JavaScript, HTML, CSS, JDBC, SQL, AJAX