

## Michael William Toole

### Professional Summary

Experienced application developer with experience in testing. Proficient in C, C++, and core Java. Experience in behavior driven development, test driven development, manual and automation testing, and software engineering. Knowledge of front end and back end development, application programming, system programming, and relational databases.

### Executive Summary

- Proficient in core **Java**, **C**, and **C++**.
- Knowledge with **BDD**, **TDD**, **TestNG**, **Cucumber**.
- Experience in **Jenkins**, **Selenium**, and **HP UFT**.
- Knowledge of automation testing, unit testing, regression testing, and stress testing.
- Worked on full stack projects involving **HTML**, **JavaScript**, **JSP**, **JSTL**, **Servlets**, and **JDBC**.
- Working knowledge of the **C++ STL**, **Core Java**, and **Python**.
- Experience with **Oracle RDMS** and **PL/SQL**.
- Interest in **Design Patterns**, **Algorithms**, **Compiler Construction**, and **Operating Systems**.
- Experience in version control systems such as **GIT** and **Mercurial**.
- Working knowledge of **AngularJS**, **NodeJS**, **Express**, and **MongoDB**.

### Education

- B.S. Computer Science, Pennsylvania State University, Harrisburg PA.

### Certifications

- Brain Bench Java 7 (2016).
- Brain Bench ANSI SQL (2016).
- Brain Bench Oracle PL/SQL Fundamentals (2016).
- Brain Bench Java Server Pages 2.1 (2016).
- Brain Bench Software Testing (2016).

### Technical Skills

Operating Systems	Windows XP/Vista/7/8/10, Linux, Unix.
Languages	C, C++, Java, IA32 assembly language, SQL, PL/SQL, HTML, Python.
API's	Collections, JDBC, Servlet, JSP, Win32.
Frameworks	Selenium, TestNG, Cucumber, Spring, Hibernate, AngularJS, Express.
Databases	Oracle 11g, Mongo DB.
Source Control	Git, Mercurial.
IDE's	HP UFT, SQL Developer, Eclipse, Spring Tool Suite, Visual Studio.

### Professional Organizations

- Institute for Electrical and Electronics Engineers.

## Professional Experience

**Wells Fargo**  
**Software Development Engineer in Test**

**March 2017 – Current**

### Credit Bridge

Worked on the Small Business Administration and Commercial Collateral Management systems for the Credit Bridge application. I was responsible for designing test cases, manual testing, regression testing, and developing the automation framework and scripts using Java and Selenium. In addition, developing utilities to facilitate test automation and maintaining automation scripts for SBA.

#### Responsibilities:

- Designed and executed test cases using **HP ALM**.
- Developed scripts using **Java, Junit, Selenium, and Cucumber**.
- System **integration testing** and **regression testing**.
- Performed **manual** and **automation testing**.
- Opened, tracked, and closed defects.

**Environment: HP ALM, Java, Selenium, Cucumber, Junit, Maven, Eclipse, Git.**

### Property Tax Management System

The system facilitates the management of property tax, returns, payments, jurisdictions, collectors, assessors, leasing, and the generation of reports. I was responsible for testing, deriving requirements, and providing support for the integration of the application.

#### Responsibilities:

- Designed and developed test cases and the **RTM**.
- Executed test cases for **UAT** and **automation testing**.
- Utilized **HP ALM** for importing and executing test cases and tracking defects.
- Developed automation scripts using **Python**.

**Environment: HP ALM, Python.**

**Hexaware Technologies, Inc.**

**October 2016 – March 2017**

### Operational Data Store

The system manages the most recent periodic financial data from multiple data sources and data systems. I was responsible for testing and providing support for the Producer Adapter component of the software system, which is responsible for executing transformation rules between data sources.

#### Responsibilities:

- Executed **test cases** for **integration testing, manual testing, and ETL testing**.
- Developed and tested **SQL** scripts for **Sybase Database** and **Microsoft Server**.
- Worked closely with the team in resolving issues with requirements and defects.
- Derived test cases and transformation rules from functional requirements.

**Environment:** Sybase Database, Microsoft Server, HP ALM, Rational Doors.

**Revature, LLC.**

**June 2016 – October 2016**

### **Apartment Reservation System**

The system facilitates the assignment, management, and housekeeping of apartments for clients. Managers can assign rooms, manage the items in rooms, submit or reject reservation requests, and user administration. Users can log in, register, submit requests for reimbursements, view past reimbursements, and view apartment information.

#### **Responsibilities:**

- Designed and created the main application module using **Bootstrap**, and **AngularJS**.
- Developed the main server entry point and routing tables using **Express** and **NodeJS**.
- Performed unit testing using **Jasmine** and **Karma** to test server modules and data access layer.
- Assisted with the development of **MongoDB** connectivity and data access functionality.

**Environment:** Bootstrap, AngularJS, NodeJS, Express, MongoDB.

### **Loan Delivery System**

The system provides services to facilitate interaction between lenders and sellers. Users can add borrowers, lenders, loans, and package selected loans into security pools. The system was to be designed utilizing behavior driven development practices and continuous integration.

#### **Responsibilities:**

- Created dynamic web pages using **JSP**, **JSTL**, and **Spring MVC**.
- Designed and developed unit tests with **TestNG** and **Selenium WebDriver**.
- Performed **functional**, **structural**, **unit**, **regression**, and **stress** testing.
- Used **JDBC** with **Oracle 11g RDMS** and **PL/SQL**.
- Used Apache **Maven** to manage dependencies and build automation.
- Used **Cucumber** with **TestNG** for **BDD** to develop tests around user stories.

**Environment:** JDK 1.7, JSTL, WebLogic, Oracle 11g, Eclipse, SQL Developer, Git, Gitlab, Agile, Spring MVC, Hibernate, Jenkins.

### **Expense Reimbursement System**

The system manages the process of reimbursing employees for expenses incurred while on company time. All employees in the company can log in and submit requests for reimbursement and view their past tickets and pending requests. Finance managers can log in and view all reimbursement requests and past history for all employees in the company and approve requests.

#### **Responsibilities:**

- Worked on client-side **HTML**, **CSS**, and **JavaScript**.
- Created dynamic web pages using **JSP** and **Java** servlets.
- Built the **DAO's** using **JDBC** to communicate with the database system.
- Used **Oracle 11g** and **PL/SQL**.

**Environment:** Java, Servlet, JSP, WebLogic, Junit, Git, SQL.