Tyler Kach

Software Development Engineer in Test
Work Permit: Green Card Holder

Address: Chicago, IL | **Cell**: (312)-773-9460 | **Email**: tylerrkach@gmail.com | LinkedIn

PROFESSIONAL SUMMARY

- Over 4 years of experience in testing both **Web** and **Mobile** applications.
- Proficient in designing and implementing **Test Automation frameworks** from scratch.
- Well-versed in the **Software Development Life Cycle (SDLC)** and **Software Testing Methodologies**.
- Experienced in backend testing, utilizing **SQL** for database record verification and server log analysis.
- Skilled in the development of **QA documentation**, including **Test Plans, Test Suites, Test Cases**, and **Bug Reports**.
- Proficient in conducting **functional**, **smoke**, and **regression tests**.
- Experienced with **version control tools** like **GitHub**.
- Proficient in identifying, prioritizing, tracking, and resolving issues, documenting defects in **JIRA/Rally**.
- Capable of managing multiple releases simultaneously and working effectively under tight deadlines.
- Hands-on experience with automation tools such as **Selenium WebDriver** and **Selenium Grid**, alongside testing tools like **TestNG** and **JUNIT**.
- Demonstrated expertise in building **Mobile Testing Automation** frameworks using **Appium**, **Java**, **TestNG**, and **Maven**.
- Highly skilled in writing and executing **Scenarios** with **Gherkin** language in the **Cucumber** Framework for UI testing.
- Able to conduct root-cause analysis, report relevant findings, and suggest remediation.
- Familiar with the core concepts of **CI/CD pipelines** and proficient in progressing code using **Jenkins**.
- Responsible for estimating, prioritizing, planning, and coordinating testing activities.
- Determined priorities for t**est scenarios** and created **execution** plans to implement those scenarios.
- Hands-on experience in writing and implementing automated **UI** and **API** tests.
- Expertise in automated **API** testing using the **Rest-Assured** library with **Java**.
- Proficient in analyzing and resolving problems, coordinating work with both local and remote teams, and optimizing tasks for efficiency.
- Strong knowledge of **Java Object-Oriented Programming (OOP)** and its application in testing scenarios.
- Capable of contributing to documentation related to code, code delivery, onboarding, or any requested documentation maintained by the team.
- Good understanding of **Maven lifecycle** for project building tools.

PROFESSIONAL SKILLS

- **Programming Languages:** Java, JavaScript, C#
- **DataBase:** SQL (MySQL, PostgreSQL)
- **Testing Types:** Functional, Regression, Smoke, System Integration, Performance
- **Tools & Technologies:** Selenium WebDriver, Postman, RestAssured, Playwright, API
- **Mobile Testing:** Appium, Android Studio, Xcode
- **Testing Activities:** Test Planning, Test Case Design, Bug Tracking, Defect Reporting
- **Methodologies:** Agile Scrum, Black-Box Testing, Manual/Automation Testing
- **Cloud Platforms:** AWS, Azure, GCP

PROFESSIONAL EXPERIENCE

Progressive Insurance,   Mayfield Village, OH   Apr 2022 – Present
Title: Software Development Engineer in Test

- Mentored junior **SDET**s and functional test engineers on test methodologies, coding standards and best practices through code reviews using **Java**, **Selenium WebDriver**, **Cucumber** and **JUNIT** for an automation framework.
- Utilized **Java** to write and maintain automated tests, improving the overall efficiency of the software testing process.
- Collaborated with development teams to identify and resolve complex bugs, utilizing **C#** with **xUnit** tool on **.Net** based applications to create unit and integration tests that improved code quality.
- Developed, maintained, and executed manual test cases based on requirements and use cases, and automated test scripts through Software Development Life Cycle (**SDLC**) and Software Testing Life Cycle (**STLC**).
- Leveraged **Java** and **Selenium WebDriver** to create robust, browser-based regression automation suites and tests.
- Utilized **Selenium Grid** for executing tests in parallel across different browsers and platforms, improving overall test efficiency.
- Engineered and implemented a comprehensive automated testing strategy using **Playwright**, achieving a 40% reduction in cross-browser and cross-platform testing time while increasing coverage by 30%.
- Developed custom **Playwright** scripts to automate complex workflows, significantly improving the reliability of nightly builds and enhancing detection of UI regressions.
- Created reusable utility methods for testing framework using **JAVA**, **Selenium WebDriver**, **TestNG**, **JDBC**, **Rest-Assured library**.
- Integrated **JavaScript** with third-party services to extend functionality and improve integration capabilities.
- Introduced **JavaScript** enhancements to existing test scripts, increasing the robustness and interactivity of test cases.
- Monitored and optimized **AWS** resource usage, implementing cost-saving measures that resulted in a 20% reduction in monthly **AWS** expenses.
- Implemented automated backup and disaster recovery solutions using AWS Backup and S3, ensuring data integrity and availability.
- Integrated **Cucumber** with **Selenium WebDriver** to run functional automated tests, using **JavaScript** to enrich test functionalities.
- Developed and implemented sophisticated automation frameworks using **Selenium WebDriver** and **Cucumber** tailored to complex **web** and **mobile** applications.
- Configured **Appium** to run simultaneous tests across multiple devices, cutting down test cycle time by half during major release testing phases.
- Implemented a hybrid testing framework combining **Appium** with **Selenium** for seamless transition testing between mobile and web platforms, which optimized resource use and maximized coverage.
- Advanced the use of **Jenkins** for **CI/CD** pipelines, integrating automation scripts into the development process to ensure continuous code quality.
- Utilized advanced features of **Postman** for comprehensive **API** testing and integrated **Rest Assured** for more complex **RESTful API** validations.
- Monitored and optimized AWS resource usage, implementing cost-saving measures that resulted in a 20% reduction in monthly AWS expenses.
- Solid background in **Web Service Testing** and validating **JSON**, **XML** request/response data using **REST API** design (**Swagger**,**Postman**), **REST**, **JSON**, **XML** transformation techniques.

Ascension HealthCare,   St. Louis, MO   Jan 2020 - Feb 2022
Title: QA Automation Engineer

• Maintained automated **mobile testing** frameworks using **Appium**, enabling efficient and reliable testing of mobile applications

• Spearheaded a team initiative to integrate **Appium** with **CI/CD** pipelines, facilitating continuous testing and rapid feedback on **mobile** platforms, which shortened release cycles.

• Utilized Android Studio to develop and fine-tune automated tests for Android applications, ensuring 95% compatibility across diverse **Android** devices and versions, thereby enhancing user satisfaction.

• Innovated Android application testing by integrating **Android Studio** with **Appium**, enabling automated scenario tests that mimic real-user interactions, which improved detection of critical path issues by 35%.

• Utilized **Appium** for automating tests for native and hybrid mobile applications, improving test coverage and efficiency.

• Used **Xcode** and **Android Studio** for testing and debugging **Android** applications, contributing to the overall app quality and user experience.

• Developed, maintained, and executed automated test suites for mobile applications using **Appium** and **Java**.

• Collaborated with developers in resolving issues identified through testing on **Android**.

• Created and executed test scripts using **Selenium WebDriver**, **Java**, **TestNG**, and dependency management tool **Maven**

• Initiated the use of **Java** and **Selenium WebDriver** to automate regression and functional tests, reducing the manual effort by 40%.

• Implemented and maintained a robust test automation framework using **Maven** and **TestNG** to support continuous integration and deployment activities.

• Utilized **SQL** for backend testing to ensure data integrity and validate complex business logic directly on the database.

• Employed basic **Postman** scripts for initial **API** testing phases, setting the stage for more complex **API** testing scenarios.

• Used **Git** version control tool and **GitHub** as a code repository.

• Generated automated daily reports using **JIRA**.

• Performed Database testing using **SQL Queries** for data design, validation and integrity testing, also established **JDBC** connection using **Java** programming language.

• Reviewed and optimized existing **manual test cases**, eliminating redundancies and improving the overall efficiency and effectiveness of the testing process.

• Established a robust **manual testing** framework that effectively reduced product time to market by 15%, enhancing competitive advantage.

• Performed meticulous **manual testing** on critical software security features, ensuring stringent adherence to industry security standards and compliance requirements.