**Charanjit Singh**

Software Developer in Test | Senior Quality Analyst

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**SUMMARY OF QUALIFICATIONS**

* Diversified experience in Software Quality Assurance testing of mobile & web applications.
* Knowledge of **Quality Assurance procedures**, **testing methodologies** and **Software Development Life Cycle.**
* Actively involved at all stages of the Software Development Life Cycle **(SDLC)** and Software Testing Life Cycle **(STLC).**
* Well-versed in **Smoke**, **System Integration**, **Exploratory**, **Regression** and **User Acceptance**.
* Actively involved with Product, Designers and Developers during the **Discovery** and **Formulation** process of the Behaviour Design Development practice.
* Experienced in training and **supervising** University co-op students and teams to help us in various projects and releases.
* Designed test automation framework in java using Behaviour Design Development **(BDD)** to run mobile apps on cloud-based continuous test platforms.
* Identified **business use cases** and scripted **automation scripts** to cover Sanity and Regression test suits for iOS and Android platforms.
* Experienced with scripting for **Native, Web** and **Hybrid** mobile applications on simulators and real devices.
* Performed Uptime, **Functional** and **Reliability API testing** in Runscope & Postman, an automation tool for API testing.
* Designed **API automation framework** to run hourly all the versions of the API test cases on different environments such as staging and production.
* Experienced in creating **webhooks** in Postman, thus used in scripts for calling set of endpoints.
* Configured jobs in **Jenkins** to run on schedule or through a trigger.
* Involved in preparation of various documents like a feature list of the modules, **Bug Status Matrix, Bug log, Release Notes** andweekly and daily **test reports** from automation tools.
* Experienced with testing tools such as **Test Rail, Asana**, **JIRA** and **Zephyr** to support testing activities.
* Experienced with creating **dashboards** in Jira to reflect the updated status of the automation coverage.
* Experienced with **Deeplinking** testing on email templates, flyers, push notifications and phone browsers.
* Involved in testing automated and human **Captcha** for iOS & Android platforms.
* Strengthened **offshore communication** with the development teams.
* Excellent verbal and written communication skills.
* Strong organizational, **multitasking** and **analytical** abilities to achieve goals, objectives and results.
* Ability to work independently as well as in a **team environment** and success with meeting deadlines under pressure.
* **Self-motivation,** enthusiasm, flexibility drive and a person of **CAN DO** attitude.

**TECHNICAL STACK**

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| **Mobile Automation Test Framework & Tools** | Appium, Selenium WebDriver, BrowserStack, Cucumber JUnit, Sauce Labs, Jenkins |
| **API Testing & Web Debug Proxy Tool** | Postman, Newman, Runscope, Curl, Charles, Webhook |
| **Automation Framework & Design Patterns** | BDD, TestNG, Page Object Model |
| **IDEs/Tools** | Visual Studio Code, Git, XCODE, Android Studio |
| **Project Management & Bug Tracking Tools** | JIRA, Confluence, TestRail, Basecamp, Asana, Xray, Zephyr |
| **Programming Languages** | Java, JavaScript |
| **Methodologies** | Agile, SAFe, Waterfall |
| **Platforms** | Native, Webapps, ReactNative, Hybrid Apps |
| **Web Technologies** | HTML, XML, Java, React Native, JSON |
| **Analytics and Monitoring Tools** | Splunk, Omniture, Urban Airship, Dynatrace, Firebase |
| **Cloud Solutions for Automation** | BrowserStack and Sauce Labs |

**WORK EXPERIENCE**

**Mobile Automation Developer | QA** April 2021 - present

Compass Digital Labs, Mississauga

**Food Service:** Compass Group is the largest contract foodservice company in the world operating in 45 countries. It serves around 5.5 billion meals a year around the world. Compass Digital Labs is the innovation and technology business under Compass Group’s parent company.

* Designed test automation framework in Java using Cucumber JUnit to follow Behavior Driven Development.
* Integrated test automation projects to run on the cloud-based continuous test platform, Sauce Labs.
* Document test scenarios in Jira using Gherkin syntax to cover the business flow for a user story.
* Using Charles, performed reverse engineering to find a list of API consumed by the mobile. Thereafter, created a Postman collection for API testing.
* Actively involved with Product, Designers and Developers during the Discovery and Formulation process of the BDD practice.
* Created dashboard in Jira to reflect the updated automated coverage of the smoke and regression test suites.
* Created Webhooks in Postman and used them in the automation script to call a set of endpoints to place orders and change order status.
* Updated the automated test results in Zephyr, a test management tool, to report the manual and automated test results in one place.

Achievement: Introduced BDD to the team. Integrate the test automation framework with BDD using CucumberJUnit runner. Removed the local dependencies for automation runs by running scripts on cloud.

Environment: BDD, Java, Appium, Newman, CucumberJUnit, Charles, Firebase, Postman, Zephyr

**Software Developer in Test** April 2020 – April 2021

Walmart Labs, Mississauga

**E-Commerce:** Walmart Labs is the technology arm of Walmart reimagining retail for 260 million daily shoppers. Walmart is the world’s largest retailer company.

* Scripted automation test scripts in JavaScript for Native & Webviews using WebDriverIO framework.
* Designed user stories using Gherkin syntax to create feature files to cover the business use cases.
* Used CucumberJS to follow BBD (Behavior Driven Development) practice.
* Monitored and modified traffic between the phone and internet which includes requests, responses and the HTTP headers (which contain the cookies information).
* Using Newman configured all the APIs to run against different environments to monitor the Reliability and Functionality of the API.
* Managed the content in CCM (Cloud Configuration Management) to directly reflect the changes on the app.
* Configured and tested Push Notifications from Urban Airship on iPhone and Android devices.
* Involved in testing automated and human Captcha on iOS and Android platforms which are used to stop Bot attacks.
* Tested Deep-linking on email templates, flyers, push notifications and phone browsers for iOS and Android platforms.
* Tested and delivered stable and bug-free mobile builds to production in bi-weekly releases.

Achievement: Had great success with testing and rolling out Walmart’s Grocery Checkin feature.

Environment: BDD, Appium, Newman, CucumberJS, Charles, JavaScript, Splunk, Urban Airship, Firebase, Dynatrace, Native/Web apps, ReactNative, Postman

**Senior Quality Analyst** Nov. 2017 – April 2020

Newtopia, Toronto

**Healthcare:** The Newtopia's workplace wellness program focuses on disease prevention & increased employee productivity to empower workers to live a healthy lifestyle.

* Scripted automation test scripts in Java using Appium for Android & IOS platforms to cover the end-to-end flow.
* Performed Sanity, Regression and Integration test executions for the mobile app on IOS and Android platforms to cover the system requirements.
* Reduced 70% of testing time on mobile apps by creating automated test suits that run on Simulators, real devices, and BrowserStack.
* Integrated bitbucket, CircleCI and BrowserStack to run automation projects in CI/CD pipeline.
* Created Functional use cases for the Proactive API monitoring and added response time validations to check the performance of an API.
* Performed technical and data validation on the response of an API with assertions in the Header, Body and response code.
* Performed Data validation on Objects and fields through inbuilt Salesforce’s API.
* Integrated TestRail with Jira so defects can be pushed directly without leaving the application. Thus, it saved 90% time to create an issue.
* Performed integration testing with third-party applications such as Fitbit, Validic, Apple Health, DCL Logistics.
* Trained and supervised University co-op students to help us in various projects and releases.

Environment: Appium, ClassChain, Predicate String, BrowserStack, Simulators, Xcode, Maven, CircleCI, TestFlight, ReactNative, Runscope, Postman, IOS & Android, Salesforce, Work-Bench, Lucid chart

**QA Developer**  Sep. 2015 - Oct.2017

Newtopia, Toronto

* Reviewed business and system requirements to develop detailed manual test cases and automated test scripts.
* Performed Sanity, Regression and Integration test executions for the mobile app on IOS and Android platforms to cover the system requirements.
* Used physical devices and simulators to perform Cross-Platform and Backward Compatibility testing on the web/mobile app on multiple devices/platforms, including IOS and Android.
* Worked on the JIRA Service Desk for managing Incidents, problems, and bugs.
* Tested the sync of various fitness trackers such as Health, Fitbit, Jawbone, Body Trace and Garmin on IOS and Android platforms.
* Worked closely with developers to test the integration with third-party applications e.g. Validic, Fitbit using endpoints.
* Excellent debugging skills and ability to investigate software failures/identity root cause in the integrated test environment.
* Increased accessibility testing coverage by 35%, following the Web Content Accessibility Guidelines (WCAG) 2.0 criteria.

Environment: Appium, Browser Stack, Simulators, Xcode, Maven, CircleCI, TestFlight, ReactNative, Runscope, Postman, IOS & Android, Salesforce, Work-Bench, Lucid chart

**Quality Analyst**   Nov.2014 - Sep.2015 The App Lab, Toronto

**Mobile Application Development**: The company offers development in both mobile and web apps, through an all-encompassing process: strategy, design, and development.

* Involved in Review/Scrum meetings on day to day basis to gather information and to keep track of the progress of the projects.
* Designed test cases using Functional Specifications, Wire Frames and UI design documents.
* Developed and executed test cases for Functional, Gesture, Network, Longevity, Compatibility, Security and Installation testing.
* Scripted and execute automated test cases using Ghost Inspector for cosmetic bugs and screenshot comparison.
* Performed a gap analysis of the received documents to ensure that there are no gaps.
* Carried out SIT, Regression, Retesting and Build Acceptable Testing(BAT) upon receiving new build and updated the test cases according to the new build.
* Tested Interim builds and provides feedback to the development team.
* Participated in the UAT testing and launched various projects on mobile and web platforms.
* Tested the functionality of various features such as Content Management System (CMS), Push Notifications and Google Analytics.
* Ensured the consistency and responsiveness of the application on different platforms and browsers.
* Reported found issues and tracked them in the JIRA.

Environment: HTML5, JavaScript, LAMP, JIRA, Basecamp, Word-press, Google Analytics, IOS & Android platforms

**Trainee Engineer** 2008 – 2009

DEN Networks, India

DEN is a dynamic, mass media & entertainment company that thrives on providing unmatched visual entertainment to its customers through cable TV, over-the-top (OTT) entertainment and broadband services. It integrates entertainment, technology, current consumer trends and customers’ preferences to elevate their TV viewing experience.

* Documented detailed test cases by incorporating both positive and negative conditions in the test plan tab of Quality Center.
* Mapped test cases to requirements in Quality Center using the requirement coverage functionality.
* Executed test cases for Functional, GUI, SIT, Security, Compatibility and end-to-end testing of the application.
* Performed Regression testing upon receiving new builds and updated the test cases accordingly.
* Performed back-end testing using SQL queries to verify the integrity of the database.
* Logged defects with proper priority and severity using Quality Centre as a defect management tool.
* Provided defect and execution status reports to the QA manager.

**EDUCATION QUALIFICATIONS**

**Masters of Engineering** 2011-2012

University of Windsor, Ontario

**Bachelor of Technology** 2003-2007

Punjab Technical University, India

**INTEREST**

* Photography
* Tennis