**Peter Cao**

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**SUMMARY:**

* 10 years of extensive and progressive experience in testing mobile and web-based applications through both automation and performance testing.
* Expertise in **Core Java** for JDK 8, 11, and 17, encompassing concepts such as Collections, Multithreading, IO System, Data Structures, Algorithms, Exception Handling, and Polymorphism.
* Strong proficiency in developing and executing automation test scripts for **web-based applications** using **Selenium WebDriver**, **Selenium GRID**, **Cucumber**, and **TestNG**.
* Expert in utilizing the **Page Object Model** to ensure reusability and high maintainability.
* Experience in **API testing** using **Postman**, **SOAP UI**, **Rest Assured**, and **Karate** framework.
* Skilled in **mobile automation** for **iOS** and **Android** platforms using **Appium** with **Java**.
* Experience with the **XCTest** framework for **native mobile applications** automation testing.
* Proficient in using **Charles Proxy** to capture and analyze HTTP and HTTPS traffic, debugging, and troubleshooting network issues for both mobile and web applications.
* Strong experience in planning, designing, executing, and analyzing **performance tests** using **Apache JMeter**, and **Gatling** for web and mobile application.
* Expertise in identifying bottlenecks, optimizing performance, and ensuring scalability and reliability.
* Experienced in creating **Data Driven**, **Key Word Driven**, **Modular Driven** automation framework.
* Deep knowledge of **Agile** concepts with extensive experience in **Scrum**, **TDD**, and **BDD**.
* Well-versed in all stages of the Software Development Life Cycle (**SDLC**) and **Testing Life Cycle**.
* Skilled in transforming business requirements into **Test Plan**, **Test Scenarios** and **Test Cases**.
* Expertise in Smoke, Functional, System Integration, Regression, Compatibility, GUI, End to End Testing, Ad-hoc, Backend Testing and participated in User Acceptance Testing (UAT).
* Expertise in Bug Reporting, Bug Tracking using various **Bug Tracking Systems** and active interaction with the development team to fix crucial bugs.
* Experience in version control systems such as **GIT** and **SVN** for source code maintenance.
* Solid experience on build management tools **Maven**/**ANT** and continuous integration tool **Jenkins**.
* Experience in writing **SQL** queries on **Oracle**, **Postgres**, and **MySQL** databases for data validation.
* Proven ability to work both independently and as part of a team.
* Excellent analytical, problem-solving, communication, and interpersonal skills, along with a strong aptitude for learning.

**TECHNICAL SKILLS:**

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| Programming Languages: | Java, Swift, Kotlin, JavaScript, Groovy, XML, XPath, JSON |
| Mobile Automation: | Appium, XCTest, Espresso, Sauce Labs, Xcode, Android Studio |
| Web Automation: | Selenium IDE, Selenium WebDriver, Cucumber, JUnit, TestNg |
| Web Services Testing: | Rest Assured, Karate, SoapUI, ReadyAPI, Postman, CharlesProxy |
| Performance Testing: | JMeter, K6, Gatling |
| Test Management: | JIRA, VersionOne, TestLink, Confluence |
| Databases: | MySQL, Oracle, MS-SQL Server, Toad Database Tool |
| IDE Tools: | Eclipse, IntelliJ |
| Operating Systems: | Windows, Linux, Unix, Mac OS |
| Build and Integration: | Maven, Ant, Jenkins, Docker |
| Version Control: | Git, SVN |

**PROFESSIONAL EXPERIENCE:**

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| **Company Name: Macys.com** | **Location: San Francisco, CA** |
| **Position: Sr. Test Automation Engineer** | **Date: February 2022- Current** |
| **Project:** Macy’s App, Bloomingdale’s App |  |

**Description:**

Macy’s, Inc. is one of the nation’s premier omni-channel fashion retailers. The company comprises three iconic retail brands, Macy’s, Bloomingdale’s and Bluemercury. The Macy's and Bloomingdale's mobile apps provide customers with the best possible shopping experience, whether online or in stores.

**Responsibilities:**

* Developed Page Object Model automation frameworks for Macy's/Bloomingdale's Apps using Appium, TestNG, and Maven.
* Created automation test scripts in Java using Appium for iOS/Android platforms.
* Used Appium Inspector to identify objects present in the mobile application page.
* Created Page Objects and maintenance Appium Driver Factory Class in the POM framework.
* Built proof-of-concept project for native app automation testing using Espresso and XCTest.
* Designed and executed performance tests using Apache JMeter and Splunk to evaluate system behavior under various load conditions.
* Identified and analyzed performance bottlenecks, including database, network, and application code issues, and provided recommendations for optimization.
* Conducted root cause analysis and worked with devs to implement performance improvement.
* Maintained and executed Maven build files for running automated test cases along with the Continuous Integration tool Jenkins.
* Maintained a Daily Site Validation test suite and provided a report to leadership.
* Performed Mobile App data validation on the response of an API using Charles Proxy tool.
* Implemented BDD framework using Rest Assured and Cucumber for API testing.
* Developed and executed API automation test scripts using Rest Assured.
* Worked as the Module QE Lead for Macy's App Bag Rewrite Project.
* Managed and coordinated the work allocation and progress of tasks with offshore QE team.
* Coordinated with the Business teams and Developers during Test Planning Phase to prepare the various test documents including Test Plan, Test Strategy, and Test Cases.
* Prepared test data and ensured an optimum test environment was setup.
* Performed various types of testing, such as Functionality, Regression, GUI Interface, Integration System, User acceptance, and end-to-end testing.
* Logged defects in JIRA and conducted Defect triage meetings with Dev and other stakeholders.
* Attended daily standup meetings, sprint planning meetings, and sprint retro meetings to discuss issues, determine story points, and walkthrough business requirements.
* Prepared signoff documents and attended the story showcase meeting with business team.
* Participated in holiday test carnival and delivered stable applications in holiday releases.
* Provided knowledge transition to offshore QE and new team members.

**Environment:**

Java, Appium, Charles Proxy, Rest Assured, Cucumber, BDD, JMeber, Splunk, XCTest, Xcode, Espresso, IntelliJ, Sauce Labs, JSON, XML, XPath, Selenium WebDriver, Git, Jenkins, Maven, JIRA, TestLink.

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| **Company Name: The Kroger Co.** | **Location: Cincinnati, Ohio** |
| **Position: Sr. Quality Assurance Engineer** | **Date: May 2020- January 2022** |
| **Project:** Kroger.com, Kroger App |  |

**Description:**

Kroger.com and the Kroger App represent the digital storefronts for one of America's largest supermarket chains, offering an extensive range of groceries, pharmacy services, and more. These platforms are designed to provide a seamless online shopping experience, allowing customers to effortlessly search, filter, sort, and buy various products.

**Responsibilities:**

* Developed BDD testing automation frameworks for Kroger.com and Kroger App using Selenium, Appium, Cucumber, and Maven.
* Strong experience in Java Programming, Selenium WebDriver and TestNG.
* Performed Mobile Automation Testing for Kroger App using Appium Driver.
* Experience in working on Page Object Model and Behavioral-Driven Development.
* Performed mobile compatibility testing through BrowserStack Simulators and SauceLabs.
* Performed functional and regression testing for RESTFUL Web Services API, using Postman, Rest Assured, and KARATE test framework.
* Utilized Charles Proxy to capture and analyze HTTP and HTTPS traffic between the client and the server, allowing for detailed debugging and troubleshooting of network-related issues.
* Designed and executed performance tests for web applications, REST APIs, and microservices using JMeter.
* Successfully identified the performance bottlenecks and improved the performance by Query Tuning as well as Application Tuning.
* Incorporated Hoverfly to simulate API responses and external service dependencies, enabling isolated and reliable testing of the Kroger.com and Kroger App service integrations.
* Partnered with the Business Analysis team to utilize Adobe Target for conducting A/B testing and personalizing user experiences.
* Worked with the business and offshore Dev team on requirements gathering and evaluation.
* Conducted test case reviews, provided project related status reporting, coordinated all release planning and led the testing team through all project phases.
* Expertise in performing Functional Testing, Integration Testing, and Regression Testing.
* Implemented backend contract testing to validate the integration and data exchange between Kroger's microservices.
* Involved in User Acceptance Testing(UAT).
* Worked on distributed test automation execution on different environments as part of the Continuous Integration Process using Jenkins.
* Detected, reported, and tracked defects using JIRA.
* Actively involved in different phases of the Software Development Life Cycle(SDLC) and Agile methodology.

**Environment:**

Java, Appium, Selenium, Selenium WebDriver, TestNG, JMeter, Charles Proxy, Hoverfly, Splunk, Cucumber, BDD, REST Assured, GraphQL, KARATE, Page Object Model, Page Factory, JSON, XML, XPath,SQL, WebService, Postman, Eclipse, Git, Jenkins, Maven, JIRA.

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| **Company Name: Vision Service Plan, Inc.** | **Location: Rancho Cordova, CA** |
| **Position: Sr. QA Automation Engineer** | **Date: February 2017- March 2020** |
| **Project:** Eyeconic.com |  |

**Description:**

Eyeconic.com is VSP's online optical retail store, implemented with the ability to use VSP Vision Benefits to order prescription glasses, sunwear and contact lenses.The backend API OOS Web Service provides the function of member search, allowance lookup, shopping cart calculate and find a prescribing doctor.

**Responsibilities:**

* Analyzed the system requirements and user case documents to provide LOE and acceptance criteria for testing.
* Developed hybrid automation frameworks (POM + BDD) for Eyeconic.com Integration Testing using Selenium, Cucumber, TestNG, and Maven.
* Created test cases and test data utilizing self-developed Selenium automation scripts.
* Developed automation test scripts for functionality testing and regression testing using Java.
* Performed functional and regression testing for RESTFUL Web Services API, using SoapUI, Groovy script, and Cucumber test framework.
* Integrated Rest Assured with existing test frameworks for comprehensive testing coverage.
* Designed and executed performance tests using JMeter for Web Application and Web Service.
* Conducted load and scalability testing to assess system performance under different conditions.
* Collaborated with DevOps teams to ensure proper infrastructure scaling and capacity planning.
* Monitored automation test results, troubleshooted defects, and analyzed error rates.
* Developed and maintained reusable testing method libraries using Java.
* Integrated WireMock to simulate the OOS Web Service responses for various test scenarios, enabling efficient and isolated testing of Eyeconic.com's integration with backend services.
* Modified the test suite according to the changes in requirements for API and Eyeconic GUI.
* Deployed new release builds to the test environments.
* Specified automation test script running configurations on Jenkins continuous integration tool.
* Formulated the test plan based on the system requirements, estimated the testing scope, and created positive and negative scenarios.
* Utilized Splunk for tracking issues, bugs, and the hierarchy of exceptions, facilitating efficient debugging processes.
* Collaborated with the Data Analytics team to integrate Adobe Analytics into Eyeconic.com, enabling a deeper understanding of customer behavior and website performance.
* Prepared test execution reports for each test cycle; logged defect descriptions and error reproduce steps.
* Reported software defects using JIRA Bug Tracking System and communicated to appropriate team member, provided advice for bug fix solutions.
* Provided comments and design documents for test scripts.
* Participated at weekly sprint planning meetings and sprint review meetings.

**Environment:**

Java, Selenium, Selenium WebDriver, Cucumber, JBehave, POM, BDD, Rest Assured, TestNG, JMeter, SoapUI Pro, WireMock, Charles Proxy, Postman, Eclipse, MySQL, JSON, Firebug, Splunk, Git, Jenkins, Maven, JIRA.

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| **Company Name: ContextLogic, Inc.** | **Location: San Francisco, CA** |
| **Position: Quality Assurance Engineer** | **Date: March 2014- January 2017** |

**Project:** Wish.com, Wish App

**Description:**

Wish.com is a prominent e-commerce platform that connects millions of buyers with sellers worldwide, offering a wide array of products at competitive prices. Its user-friendly interface and mobile-centric design have made it particularly popular among a diverse global audience.

**Responsibilities:**

* Analyzed the user requirements, functional specifications and Use Case documents, and created the Test Plans, Test cases for Functional testing.
* Built a Proof of Concept for team members and gave client demos.
* Extensively worked on creation of a Modular Driven framework using selenium WebDriver.
* Developed automated test scripts using Selenium and Java.
* Extensively worked with Selenium WebDriver using various locators like Xpath, CSS Selectors.
* Highly experienced in integrating HTML reports.
* Reviewed Test Data, Test execution reports, Automated test scripts.
* Created Cross browser framework which works on Internet Explorer, Firefox, Chrome.
* Experienced in Web services automation using Soap UI for Rest services.
* Executed multiple test cases using Selenium GRID.
* Collaborated with development teams to implement code changes and optimizations based on performance test results.
* Involved in Defect tracking and Reporting using HP Quality Center 10.0.
* Re-testing fixed issues and performed regression testing of the application.
* Involved in daily SCRUM meetings, test script peer review, product management.
* Modified the existing test suite based on the changes in requirements.
* Created Test cases for the new functionality.
* Prepared Test completion and Test execution report for each test cycle.
* Used SVN for Build Management for each release.

**Environment:**

Selenium WebDriver, Selenium IDE, HTML, ANT, Eclipse, Junit, HP QC 10.0, SOAP UI, SVN.

**EDUCATION**

**B.E. in Computer Science and Technology**

Zhengzhou University, Zhengzhou, China. 2006 - 2010

**M.S. in Computer Science**

Louisiana Tech University, Ruston, LA. 2011 - 2013

**REFERENCES**

**Recognition from VSP, Inc**

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