

Work Experience

Software Test Engineer Mobile Apps/ Search team	Ecosia Berlin, Germany	July 2022–Present
- Expanded automated acceptance testing using Nightwatch.js, Appium, and BrowserStack, increasing automation coverage and improving release confidence for millions of users. - Reduced mobile automation test flakiness to below 5% by stabilizing test infrastructure, improving test isolation, and improving CI monitoring. - Introduced automated analytics validation tests using Snowplow Micro, Nightwatch.js, and BrowserStack, integrated into the development environment and CI pipelines, eliminating hours of manual verification during migrations and releases. - Performed weekly critical production health checks after code merges, reducing mobile app crash rates to below 0.1% across Android and iOS and improving overall product stability. - Expanded automation coverage for mobile and web acceptance tests using Nightwatch.js, Appium, and BrowserStack, improving release confidence and increasing app retention by 15%. - Led initiatives to integrate automated testing into CI pipelines with platform, frontend, and test engineering teams, reducing deployment risks and improving development velocity. - Conducted exploratory and end-to-end testing of complex user flows across mobile applications before releases to uncover edge cases not covered by automation.		
QA Engineer Marketing Solutions team	Trivago Düsseldorf, Germany	2021–2022
- Improved the team's testing strategy and automation coverage, reducing release time by 25% while maintaining product quality. - Collaborated with Development and DevOps teams to integrate automation into CI/CD pipelines, reducing manual efforts by 30%. - Identified and stabilized issues in the existing automation framework, increasing regression automation coverage by 30%. - Performed exploratory and functional testing of web applications to identify edge cases and usability issues before releases. - Documented and standardized the release management process, reducing release errors by 20% and improving cross-team coordination.		
QA Engineer Core team	APIMatic Islamabad, Pakistan	2020–2021
- Analyzed API market trends, enhancing product performance and user perception, boosting sales by targeting fintech consumers post-COVID-19, this resulted in a 50% YOY revenue increase. - Validated REST APIs and SDK generation workflows, ensuring reliability of API specifications across multiple languages.		
QA Engineer Mobile Development team	Telenor Microfinance Bank Islamabad, Pakistan	2019–2020

- Designed and developed the automation framework for mobile applications reducing regression testing time by 70%.
- Performed **functional, regression, and exploratory testing** for Android and iOS financial applications serving millions of users.
- Analyzed monitoring and crash analytics data from **7M+ users** to identify stability issues and prioritize fixes.

QA Analyst

WRP Studios

2017-2019

Testing team

Islamabad, Pakistan

- Performed **manual, regression, and exploratory testing** for mobile and web applications across multiple client projects.
- Participated in early **test planning and test case design**, improving coverage of critical user flows.

Education

- **B.S. Software Engineering**, National University of Sciences and Technology, Islamabad, Pakistan **2013–2017**
- **Courses:** Software Quality Engineering, Requirements Engineering, Network Security, Digital Forensics.

Tools and Technologies

- Languages: Java, Javascript, Python.
- Test Automation: Playwright, Appium, Nightwatch.js, Selenium WebDriver, Robot Framework, TestNG, JUnit
- Testing: Mobile Testing, Web Testing, REST API Testing, Test Automation, Exploratory Testing
- DevOps / CI: Git, CI/CD Pipelines, GitHub Actions, Docker, Kubernetes
- Platforms & Tools: Postman, BrowserStack, Grafana, Xcode, macOS, Android Framework

Projects

- **Nightwatch.js Web Automation Framework for Ecosia**
Designed and implemented a JavaScript-based web automation framework using Nightwatch.js for validating Ecosia search and web platform functionality. Integrated with BrowserStack and CI pipelines to support cross-browser testing and automated regression checks for releases.
- **Automated Testing Framework for Ecosia Android App**
Developed an Appium and Java TestNG-based Automation Framework for the Ecosia Android App, ensuring complete test coverage, integrated CI via GitHub Actions, and decreased manual effort by 70% for releases serving 4M monthly users
- **Automation Framework for EasyPaisa Android Application**
Designed and developed an automation framework with Appium and Java TestNG for the EasyPaisa Android App, achieving 90% test coverage of crucial features. Reduced manual regression testing effort by 70%, contributing to the app's 4.6 rating on the Play Store with over 50 million downloads.
- **Mobile Automation Framework for Ounass with Java Selenium WebDriver and Appium, TestNG, and Maven**
Led the development of a comprehensive mobile automation framework for Ounass at WRP Studios, leveraging Java Selenium WebDriver and Appium combined with TestNG and Maven. This framework facilitated automated testing of mobile applications, ensuring high test coverage and reliability.

Certifications

- ISTQB® Certified Tester Foundation Level (CTFL) | International Software Testing Qualifications Board