

# Muhammad Wahaj Tahir

SOFTWARE ENGINEER · SDET EXPERT

Lahore, Punjab, Pakistan

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## Summary

As a seasoned **Software Engineer**, I specialize in **architecting** robust solutions and ensuring impeccable **software quality** through **automated testing**. In the domain of **DevOps**, I bridge the development and operations gap, implementing efficient **CI/CD pipelines** for accelerated project delivery. My collaborative spirit and **proficiency drive** end-to-end success, from project inception to seamless delivery.

## Skills

<b>Operating Systems</b>	macOS, Debian, Windows
<b>Agile Management</b>	Jira, Asana, Clickup
<b>Programming</b>	C/C++, Bash, Go, Python, JavaScript, LaTeX
<b>Data Analysis</b>	Pandas, Numpy, Matplotlib, Seaborn
<b>Machine Learning</b>	Sklearn, Gradio
<b>DevOps</b>	Git, Jenkins, Docker, Kubernetes, Ansible
<b>Software Testing</b>	Postman, Selenium, Appium, Robot Framework, Cypress, Pytest
<b>DBMS</b>	MySQL, MongoDB

## Experience

### Rendream

Lahore, Pakistan

SQAE, EXECUTIVE

March 2024 - Present

- We are developing a comprehensive diagnostic solution to distinguish between genuine and non-genuine mobile device components, including OEM parts, ESNs, and MDM systems.
- Collaborating with cross-functional teams to streamline testing processes using **Jira**
- Developing and implementing robust test scripts using **Python** with **Appium** on real devices for both Android and iOS, maintaining the source code on **Github**.
- Utilizing **Selenium** for web application automated testing to ensure comprehensive coverage and reliability.
- Conducting **Cross-Browser** Testing to ensure compatibility across various web browsers.
- Containerizing the test scripts for both mobile app and web app using **Docker** to avoid package version dependence and test the scripts in different environments seamlessly.
- Implementing **CI/CD** pipelines using **Jenkins** to automate the build, test, and deployment processes.
- Performing API testing with **Postman** for RESTful services, ensuring robust integration and functionality.
- Creating detailed bug reports and managing test cases to ensure thorough documentation and traceability.

### Techandover

Lahore, Pakistan

SOFTWARE QUALITY ASSURANCE

November 2023 - March 2024

- Experienced QA Specialist proficient in manual testing of mobile apps like **Kazzah** and **Kazzah Pro**, with expertise in implementing QA best practices. Skilled in Appium for developing scripts (**Github**) to enhance efficiency and ensure high-quality mobile applications. Collaborates with cross-functional teams on Jira, serving as Scrum Master to craft strategic backlogs, lead stand-ups, for optimal project success. For seamless workflow, I manage the source code using Git from the development environment to staging and then to production in GitLab, ensuring there is no conflicts left.

### Selteq

Lahore, Pakistan

SOFTWARE QUALITY ASSURANCE (INTERN)

August 2023 - November 2023

- In my professional capacity, I have executed regression, smoke, and sanity testing protocols on web-based applications, namely Plexaar and Expert. Furthermore, I have utilized Postman to conduct testing for REST APIs and I also tried to automate the products using **Selenium** and **Cypress** to minimize the 30% repetitive tasks effectively.

### Green Canvas Partners

California, US (Remote)

DATA SCIENTIST (INTERN)

July 2023 - August 2023


- Conduct research on potential stock targets, analyze historical data using Python libraries like Pandas, Numpy, Matplotlib, and perform successful pattern prediction through back-testing.
- Reference: **Stock-Market (Github)**

## Projects

## Class Diagram Compiler

FAST-NUCES


FYP

- Our class diagram compiler processes XML input, detecting syntactic and semantic errors while managing associations between multiple diagrams. Moreover, it generates corresponding skeleton code and maintains a user history for activity review.
- Reference: [Class Diagram Compiler \(Github\)](#) 

## Rush-Hour Marketing Using Traffic Hotspot

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DATA SCIENCE

- Compile junction points in Lahore, employ Geopandas for spatial analysis, use map visualization with Folium-like libraries, and address key queries about product types, target age groups, and optimal sales locations.
- Reference: [Rush Hour Marketing \(Github\)](#) 

## Grading Prediction

FAST-NUCES

DATA MINING

- I performed EDA on the provided dataset, trained it using machine learning classifiers including Nearest Neighbor, Decision Tree, and Naive Bayes models, and determined student pass/fail outcomes.
- Reference: [Grading Prediction \(Github\)](#) 

## Bus Reservation System

FAST-NUCES

SOFTWARE REQUIREMENT ENGINEERING

- Gather the information.
- Try different questionnaires and feedback.
- Try to align the user need to system accomplishment.

## Car Parking Lot System

FAST-NUCES

OBJECT ORIENTED PROGRAMMING

- I design a system using the **oop concept** in **C++** to validate the vehicle in the different price ranges.

# Education

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**FAST-NUCES**

Faisalabad, Pakistan

BACHELORE IN SOFTWARE ENGINEERING (BSSE)

2019 - 2023