

GAURAV KUMAR

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SUMMARY

B.Tech graduate and aspiring Software Test Engineer with hands-on experience in manual and automated testing of web applications. Proficient in designing test cases, executing test plans, and identifying defects using tools such as Selenium, Pytest, and Postman. Solid understanding of SDLC, STLC, and Agile methodologies. Strong analytical and problem-solving skills with a keen eye for quality. Seeking Software Testing / QA Engineer opportunities to contribute to high-quality software delivery.

EDUCATION

2022 – 2026 B.Tech in Computer Science and Engineering (AIML) at Gandhi Engineering College, Bhubaneswar (SGPA: 7.5/10)

2020 – 2022 Intermediate — Science Stream (PCM) (Percentage: 72.2%)

2018 – 2020 Matriculation (Percentage: 76.2%)

SKILLS

Testing Types: Manual Testing, Functional Testing, Regression Testing, Smoke Testing, Integration Testing, API Testing

Testing Frameworks: Selenium WebDriver, Pytest, TestNG, JUnit

Test Management: Test Case Design, Test Plan Creation, Bug Reporting, Defect Life Cycle, Traceability Matrix

API & Tools: Postman, REST API Testing, Git, GitHub, VS Code, JIRA (Basic)

Programming: Python, Java (Basic), SQL

Methodologies: SDLC, STLC, Agile/Scrum, Waterfall

Database: MySQL, MongoDB, SQL Query Testing

PROJECTS

Manual Testing of E-Commerce Web Application — Manual Testing, Excel, JIRA

Performed end-to-end manual testing of a sample e-commerce web application covering modules such as user registration, login, product search, cart management, and checkout. Designed and documented over 50 test cases with detailed steps, expected results, and actual outcomes. Identified and reported 15+ bugs with proper severity and priority classification. Created a Requirements Traceability Matrix (RTM) to ensure complete test coverage. Used Excel for test case management and documented a detailed bug report.

API Testing of RESTful Services Using Postman — Postman, REST API, JSON

Tested RESTful API endpoints of a publicly available demo application (Reqres / JSONPlaceholder) covering GET, POST, PUT, PATCH, and DELETE requests. Validated response status codes, response body structure, data types, and error handling scenarios. Created organized Postman collections with environment variables and pre-request scripts. Documented test results and identified discrepancies between actual and expected API responses. Performed boundary value and negative testing on request parameters.

Selenium Automation Framework for Web Application — Python, Selenium WebDriver, Pytest

Developed a keyword-driven automated test suite using Selenium WebDriver and Pytest for a student management web application. Automated test scenarios covering login validation, form submission, CRUD operations, and search functionality. Implemented Page Object Model (POM) design pattern to improve code reusability and maintainability. Integrated pytest-html for generating detailed HTML test reports. Configured test execution for multiple browsers (Chrome, Firefox) using WebDriver Manager. Achieved 80%+ automation coverage for core regression test cases.

Database Testing for Data Processing Pipeline — Python, MySQL, Pytest, SQL

Conducted database testing for an ETL data pipeline that processes and stores records in MySQL. Wrote SQL queries to validate data integrity, completeness, and accuracy at each pipeline stage. Verified data transformation logic by comparing source and target records. Tested boundary conditions, null value handling, and duplicate data scenarios. Automated database validation scripts using Python and Pytest to run post-pipeline checks. Identified and reported 10+ data integrity defects including incorrect transformations and missing records.

CERTIFICATIONS & TRAINING

Python Programming Certification — Udemy Foundation

Completed comprehensive Python course covering Basics, Object-Oriented Programming, Flask framework, Data manipulation with NumPy, and visualization with Matplotlib. Gained extensive hands-on experience in Python application development and backend systems.

Career Essentials in Professional Development — NIIT Foundation

Completed professional development training on Personality Development, Communication Skills, and Teamwork. Enhanced soft skills and professional competencies required for modern work environments.

Web Development — Infosys Foundation - Aspire for Her

Gained exposure to modern web development technologies including React, Flask, HTML5, CSS3, and JavaScript. Built responsive user interfaces following industry best practices. Learned project-based development workflows and collaborated in team environments.