

Karan Prasath S

ML Data Associate

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Profile

Detail-oriented QA professional with 2 years of experience at Amazon, specializing in manual and automation-aligned testing of AI and web-based applications. Proficient in Java, Python, and SQL with strong knowledge of web technologies (HTML, CSS, JavaScript) and object-oriented programming. Hands-on experience with Selenium WebDriver and exposure to Playwright for UI automation. Skilled in functional, regression, UI, and API testing using Postman and Python requests. Adept at creating test cases, defect tracking, and collaborating in Agile environments. Seeking to contribute testing expertise, automation skills, and problem-solving mindset to the Quality Engineering team at SkyHive.

Professional Experience

- ML Data Associate, Amazon Development Center India**08/2023 – 08/2025 | Chennai
- Performed end-to-end manual testing on AI-powered and web applications, validating functionality, accuracy, and UI responsiveness across text, image, and video modules.
 - Designed, developed, and executed test cases and regression suites in Java and Python, applying object-oriented principles to improve reusability and scalability of test scripts.
 - Automated front-end test scenarios using Selenium WebDriver (Java + TestNG), reducing manual test effort and increasing coverage across critical workflows.
 - Conducted API testing with Postman and implemented Python requests scripts to validate REST endpoints, ensuring proper request/response handling and data integrity.
 - Collaborated with developers and QA leads in Agile sprints, participating in sprint planning, daily standups, retrospectives, and defect triage meetings.
 - Logged, tracked, and verified defects using JIRA, ensuring timely resolution and compliance with QA standards.
 - Utilized TestRail to manage test cases, execution cycles, and coverage reports, improving traceability and reporting.
 - Coordinated UI, functional, and regression testing during release cycles, ensuring product stability and minimizing production issues.
 - Contributed to test documentation including test plans, bug reports, and execution logs for audit readiness.
 - Supported basic automation framework maintenance and explored Playwright for modern front-end testing approaches.

Projects

- Video Object Detection, Computer Vision & Model Validation**01/2025 – 05/2025
- Developed a real-time object detection system using Python, OpenCV, and YOLO.
 - Designed validation scripts and test scenarios to ensure detection accuracy.
 - Conducted manual and semi-automated testing to validate system reliability.
- Online Parking System, Full Stack Development & Testing**03/2021 – 06/2021
- Designed and developed a full-stack web application using PHP, HTML, CSS, JavaScript, Bootstrap, and MySQL.
 - Conducted manual and UI testing, validating features like booking flow and image uploads.
 - Automated sample test cases using Selenium WebDriver (Java) to improve reliability.

Education

- Master of Computer Science, St. Xavier's College**06/2021 – 05/2023 | Chennai
- Completed Postgraduate studies in Computer Science with a CGPA of 7.84.
- Bachelor of Computer Science,, St. Xavier's College**06/2018 – 04/2021 | Chennai
- Completed Undergraduate studies in Computer Science with a CGPA of 6.72

Skills

- Automation & Testing:**
Selenium WebDriver, Test Case Design, Regression Testing, UI Testing, Defect Tracking, TestRail, JIRA, Playwright (Beginner)
- API & Web Services:**
Postman, Python requests, REST API Testing
- Programming & Databases:**
Java (OOP), Python, SQL (MySQL), C, HTML, CSS, JavaScript, Bootstrap, PHP
- Tools & Methodologies:**
Agile/Scrum, SDLC, STLC, Bug Lifecycle, Test Documentation.