Aakarsh Mehta

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SUMMARY

A dedicated QA Engineer with over 3.5 years of experience ensuring application quality through comprehensive manual and functional testing for web and mobile platforms. Proficient in developing detailed test plans, executing test cases, and identifying complex usability issues to deliver a seamless user experience. Expertise in bug tracking within Agile environments using Jira and collaborating with cross-functional teams to validate software stability and feature compliance.

EDUCATION

Master of Science, Computer Science   Aug 2023 – May 2025

Texas A&M University-Corpus Christi   *Texas, USA*

Bachelor of Technology, Computer Science   Aug 2016 – Aug 2020

Amity University, Gwalior   *Madhya Pradesh, India*

RELEVANT EXPERIENCE

Software Engineer   Jan 2025 – Present

HubOEM   *Corpus Christi, USA*

- Developed and executed manual test plans, identifying critical usability issues and edge cases to ensure full feature compliance with product requirements.
- Documented, tracked, and reported over 30 critical bugs using Jira, working closely with developers to conduct root-cause analysis and boost system stability by 45%.

Software Engineer - Test   Feb 2021 – Aug 2023

Larsen & Toubro Technology Services   *Bengaluru, IN*

- Improved functional and regression test coverage by designing a reusable test framework, increasing overall QA efficiency by 40%.
- Conducted manual functional and usability testing across web and mobile-emulated platforms (UNIX/Linux), ensuring software stability for over 1M users.
- Performed in-depth root-cause analysis for production issues and contributed to the refinement of QA best practices within an agile environment.

Software Developer   July 2020 – Jan 2021

Amrutam   *Gwalior, IN*

- Developed new WordPress features and optimized e-commerce platform, resulting in a 30% sales increase
- Redesigned the existing login functionality at UI level, resulting in a 40% increase in user sign-ups.

PROJECTS

Savr: A Vital Pantry | Flutter, Firebase, Generative AI
- Led end-to-end development and integration of SAVR, an AI-powered health and wellness assistant app, selected as Best Project in the Advanced Software Engineering course.
- Designed and implemented core features including expiry tracking, meal planning, and fitness monitoring—for a cross-platform app, ensuring a smooth user experience on both web and mobile.

Automated E-Commerce Test Suite | Python, Selenium, PyTest, Jira
- Authored and maintained over 50 unique test scripts using Selenium WebDriver and PyTest, achieving an 85% reduction in manual regression testing time.
- Integrated the test suite with a CI/CD pipeline, enabling automated test execution upon each new build and reported defects directly into Jira.

Amazon Clone | HTML, CSS, JavaScript, ReactJS, NodeJS, ExpressJS, Stripe Gateway, GCP
- Developed and tested a complete e-commerce site—Amazon Clone—using HTML, CSS, ReactJS, NodeJS, and ExpressJS.
- Integrated with a payment gateway—Stripe—for end-to-end user experience and hosted the project on Google Cloud Platform (GCP).

Research Paper | Machine Learning Algorithms, Deep Learning, Sentiment Analysis, Twitter Datasets
- Applied machine learning algorithms—including SVM, K-NN, and LSTM—to analyze and recognize sarcasm in tweets.
- Achieved 89.23% precision in sarcasm detection using LSTM models, with findings published in a reputable international journal.

TECHNICAL SKILLS

Languages:	C++, Python (OpenCV, NumPy, Pandas, Matplotlib, TensorFlow), C++, JavaScript, Ruby
DevOps:	Git, GitHub, Jenkins, CI/CD, Docker, Linux/Unix, JIRA, Postman, Dynatrace, SOAPUI, Fiddler
Testing & Methodologies:	TDD, Manual Testing, Functional, Integration, Regression, Performance Testing, Agile Methodologies
Test Automation & Tools:	UI/API Automation, Cucumber, Gherkin, TestNG
Cloud:	Google Cloud Platform (GCP), familiarity with AWS