

Muguntha Durairaj

+1 437 669 3545 | Scarborough, ON | muguntharamkumar1996@gmail.com | [LinkedIn](#) | [GitHub](#) | [My Portfolio](#)

Summary

- Software Tester with 4+ years of experience in IT, specializing in manual and automation testing scripts execution to enhance software reliability and support business outcomes.
- Proficient in conducting manual and automation testing, including functional, regression, integration, and acceptance testing, ensuring thorough software evaluation and validation.
- Strong programming skills in **JavaScript, Python, and Java**, with experience developing robust automation scripts.
- Proficient in using CI/CD pipelines with Jenkins, Git for version control, and Maven and JIRA for project management, ensuring continuous improvement and maintenance of testing frameworks.
- Experience working in **Agile Methodology**, adept at Scrum and Sprint planning to enhance testing processes and collaboration within the team.
- Knowledgeable in database management systems including MySQL, PostgreSQL, and MongoDB, crucial for test data setup and validation.
- Extensive experience creating and maintaining automated test scripts using **Selenium, Postman, and Cypress** ensuring efficient functional, regression and performance testing.
- Designed and developed test plans and cases based on functional and design specifications, executed test cases, and analyzed and reported test results to teams.
- Self-motivated and proactive problem solver with a passion for continuous improvement and a demonstrated ability to work independently, balance speed with risk, and make data-informed decisions while fostering personal growth and overcoming challenges with persistence and strong coordination skills.

Skills

- **Manual Testing:** Functional Testing, Regression Testing, Integration Testing, Acceptance Testing, Test Case Development and Execution, Test Planning and Strategy, Defect Reporting and Tracking
- **Testing Tools:** Selenium, Cypress, Postman, JMeter
- **Programming Languages:** JavaScript, Python, Java
- **Frameworks:** TestNG, Page Object Model (POM), Behaviour Driven Development (BDD), Rest API
- **Technologies:** Agile Methodology (Scrum), SDLC, GIT, JIRA, Maven, Jenkins, Docker, GitHub
- **Databases:** SQL, RDBMS, MySQL, PostgreSQL, MongoDB
- **Other Competencies:** Automation, Scripting, API Testing, Performance Testing, Report Writing

Projects

Wandr [App](#) | [GitHub-frontend](#) | [GitHub-backend](#)

- Developed highly scalable web applications with **React.js** for dynamic user interfaces and implemented an efficient server using **Express.js and Node.js**.
- Integrated RESTful API endpoints to facilitate seamless communication between front and back ends, enabling efficient data exchange and manipulation. Utilized **MongoDB** for database and JWT token for authentication and authorization.

Soundsgood [App](#) | [GitHub](#)

- Designed and implemented functionality using **Python and Django framework with PostgreSQL** for database.
- Utilized **Docker and YAML** for efficient packaging and deployment of the application components.
- Implemented user authentication and authorization features to secure user data and playlists.

Work Experience

Fellow in Software Engineering - August 2023–November 2023

General Assembly, Canada

- Completed over 420 hours of full-stack software engineering instruction, encompassing system design specifications.
- Expertise in front-end usability to backend algorithms, gained expertise through rigorous boot camp training. Designs, codes, and debugs with precision and efficiency.
- Experienced designing, querying, and managing SQL databases to store and retrieve data efficiently.

Senior Quality Assurance Specialist - June 2022 – April 2023

KGISL Ltd., India. **Client - ART rail, Financial Sector – US**

- Developed automated test scripts, test cases, and use cases using functional automation test tools such as Selenium, TestNG, and Page Object Model (POM) with Java.
- Integrated test libraries with **JIRA**, resulting in a 20% increase in test efficiency and a 15% reduction in defect resolution time.
- Spearheaded the integration of automated tests into **Jenkins CI/CD pipelines**, contributing to a 40% faster feedback cycle and enhancing overall software robustness.
- Created and expanded test plans and strategies to seamlessly integrate with the software development process, ensuring comprehensive coverage and quality assurance.
- Utilized software testing best practices, **Agile methodologies, and Software Development Life Cycle (SDLC)** to ensure project success, actively participating in Scrum events, and aligning with project objectives.
- Effectively communicated technical challenges and solutions to cross-functional teams, including developers, product owners, and non-technical stakeholders, showcasing strong verbal and written communication skills.

QA Engineer - February 2020 –August 2021

HCL Technologies, India. **Client – Apria Healthcare, US**

- Conducted comprehensive system-level testing to ensure software product functionality, performance, and reliability.
- Produced QA deliverables: **status reports, test scripts, summaries, and defect reports**. Enhanced technical documentation with an increased focus on functional aspects.
- Captured and analyzed quality assurance data and metrics, providing valuable insights and recommendations for improving testing processes and product quality. Achieved a 25% improvement in issue resolution through data-driven analysis and process optimization.
- Participated in defect triage meetings with the client regularly to categorize the bugs based on severity and priority and perform **Root Cause Analysis (RCA)** using Developer Tools
- Exhibited strong communication skills, producing clear, concise, and detailed documentation, and effectively explaining complex technical issues to both technical and non-technical audiences.

QA Engineer - January 2019 – January 2020

ISON Pvt. Ltd., India

- Tested over 300+ manual test cases, including functional, regression, integration, and acceptance testing, ensuring software quality and reliability.
- Achieved a 20% reduction in defect resolution time by implementing efficient defect tracking and reporting processes.
- Contributed to test planning and strategy discussions, providing insights and recommendations that led to a 10% improvement in testing processes' effectiveness.
- Worked closely with **cross-functional** teams to understand user needs and system requirements, resulting in 15% ensuring effective communication and project alignment.

Education

- General Assembly, Software Engineering Immersive course
- Anna University, India, Bachelor's in Electronics and Communication Engineering

(Aug 2023–Nov 2023)

(May 2017)