

Muguntha Durairaj

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Summary

- Detail-oriented Software Developer with a strong foundation in software testing and over **4 years of experience** as an IT professional, capable of driving successful business outcomes for customers.
- Proficient in working with programming and scripting languages such as **Java, JavaScript, and Python**.
- Good Exposure to working with Web Technologies such as HTML, CSS, XML, and JSON data structures.
- Skilled in testing methodologies including test planning, writing test cases, generating test scripts, and defect management for manual and automated testing based on functional and business requirements.
- Expertise in working with operating systems such as Linux, Windows, and MacOS.
- Ability to think strategically, solve complex problems, and contribute to developing high-quality products.
- Learned DevOps skills online and applied them practically. Contributed to **DevOps** deliverables like Azure resource group tags and extended log retention in Application Insights.
- Proactive and adaptable team player with a strong problem-solving aptitude, continually enhancing skills, comfortable tackling new problems independently or in collaboration, proficient in time management, **actively listening to others embracing different opinions and open to learning new technologies**.

Skills

Programming: Python, Java, JavaScript, HTML5/CSS3/XML, JSON

Tools and Technologies: JIRA, GitHub, Git, Maven, Postman, AWS, Azure, Docker, YAML, Linux

Databases: Relational database, PostgreSQL, NoSQL database, MongoDB, and Mongoose

Web Development: React.js, Express.js, Django, Node.js

Testing: Selenium, TestNG, REST-Assured, Appium, Functional Testing, Test Case / Script Development, API Testing

Projects

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

- Designed and implemented the front-end user interface using **React and JavaScript**.
- Implemented responsive design principles to ensure optimal user experience across devices.
- Engineered a robust server architecture using **Express.js and Node.js**, implementing server-side logic.
- Managed database operations using **MongoDB**, a flexible and scalable **NoSQL database**.
- Implemented middleware functionalities, including request processing and routing, leveraging **Passport.js** middleware for streamlined authentication and authorization processes.
- Implemented API integration with database design and utilizing REST API endpoints, ensuring smooth communication between front and back ends.
- Generated and verified JWT tokens upon user authentication to ensure secure access to protected resources.

Soundsgood App | [GitHub](#)

- Spearheaded the design and implementation of core functionalities using **Python and Django**, ensuring high-performance and scalable web application development adhering to industry standards.
- Employed **PostgreSQL** as the backend database, utilizing its advanced features for efficient data storage and retrieval.
- Implemented **containerization using Docker** to encapsulate application components, ensuring consistent deployment across different environments.
- Utilized Django's built-in authorization features to enforce fine-grained access control policies, ensuring data confidentiality and integrity.

Work Experience

Fellow in Software Engineering - August 2023–November 2023

General Assembly

- 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 in 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, Banking Sector - US**

- Involved in developing automated test scripts, test cases and use cases using functional automation test tools such as **Selenium, TestNG, Test Driven Development and POM with Java**
- Expertise in using API automation test tools like **Rest Assured with Java** to create automated test scripts for application-only integrated testing, effectively mocking all third-party/dependency APIs.
- Leverages leadership and coding expertise to assist the development team in maintaining test tools and frameworks to validate **unit, integration, and functional system tests**.
- Identified and documented defects using issue tracking systems JIRA and worked closely with the development team to resolve issues efficiently.
- Collaborated with developers, designers, and product managers to identify customer needs, and testing requirements, and define test strategies.
- Learned DevOps skills online and applied them practically. Contributed to **DevOps** deliverables like Azure resource group tags and extended log retention in Application Insights.
- Utilized software testing best practices, **Agile methodologies, and SDLC** to ensure project success, actively participating in Scrum events and aligning with project objectives.
- At the end of each **sprint**, presented project demos to clients and team members, promoting a transparent and collaborative team culture.

QA Engineer - February 2020 –August 2021

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

- Expertise in developing Automation frameworks using **Java and Maven** for interacting with web applications for healthcare **client Apria**.
- Conducted comprehensive system-level testing to ensure software products' 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.
- Consistently refactored code for maintainability, conducted peer code reviews and performed rigorous testing for high-quality software.
- 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

QA Engineer - January 2019 – January 2020

ISON Pvt. Ltd., India

- Maintained automated test scripts and enhanced them based on business needs.
- Offered concise testing updates to team, leads, and clients, while generating comprehensive status reports for all stakeholders.
- Coordinated with Business Analysts for **User Acceptance test planning, execution, and scheduling**.

Education

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

(Aug 2023–Nov 2023)

(May 2017)