

Sahan Munasinghe

Phone number: (+94) 702310660 (Mobile) | Email address: sahandulanjaya99@gmail.com |

Website: <https://sahandulanjaya.com/> | LinkedIn: [Sahan-Dulanjaya](#) | GitHub: [Sahan-Dulanjaya](#)

● ABOUT ME

Tech enthusiast with a passion for QA and a curiosity for new technologies. A fast learner with strong attention to detail, I enjoy applying insights from my experiences and staying updated on global tech trends to ensure quality and innovation.

● WORK EXPERIENCE

AK NINE SOLUTIONS (PRIVATE) LIMITED – COLOMBO, SRI LANKA

QA ENGINEER – 08/2024 – 07/2025

- Designed, developed, and executed **manual and automated test cases** for web applications, ensuring high-quality releases and maintaining test artifacts using **Git**.
- Implemented **test automation with Playwright and JavaScript**, enhancing regression testing efficiency.
- Conducted **API testing with Postman** and validated backend data using **MySQL queries**.
- Tracked, prioritized, and reported defects in **Jira**, collaborating closely with developers to resolve issues effectively.
- Participated in **test planning, execution, and reporting**, contributing to continuous QA process improvements.

AK NINE SOLUTIONS (PRIVATE) LIMITED – COLOMBO, SRI LANKA

Associate QA ENGINEER – 02/2024 – 07/2024

- Assisted in designing, developing, and executing **manual test cases** for web and mobile applications.
- Supported the **automation testing process**, including learning and applying tools like Selenium/WebDriver and basic test scripts.
- Performed **functional, regression, and integration testing** to ensure application quality.
- Reported and tracked defects using **bug tracking tools**, collaborating with developers to resolve issues.
- Participated in **test planning and documentation**, contributing to comprehensive QA deliverables.
- Gained hands-on experience with **test automation frameworks** and **continuous learning of QA best practices**.

EBEYONDS (PRIVATE) LIMITED – PANNIPITIYA, SRI LANKA

QUALITY ASSURANCE ENGINEER INTERN – 06/2023 – 11/2023

- Developed test cases for a **cloud-based e-commerce platform**, performing manual testing, custom API testing, volume testing, and stress testing using JMeter.
- Created comprehensive test cases and conducted manual testing on an **online payment portal**, ensuring secure and efficient transaction processes, while collaborating with developers to resolve defects promptly.
- Performed **functional and regression testing** on an online education platform and a cloud-based data storage platform, identifying, reporting, and tracking defects using JIRA to maintain an optimal user experience.
- Conducted **API testing using Postman and JMeter**, and created JMeter scripts to automate performance and load testing scenarios, assessing system scalability and reliability.

● EDUCATION AND TRAINING

2025

ISTQB CERTIFIED TESTER – FOUNDATION LEVEL (CTFL V4.0) International Software Testing Qualifications Board (ISTQB)

Website <https://www.istqb.org/>

01/01/2021 – 30/11/2024 Malabe, Sri Lanka

BSC (HONS) IN INFORMATION TECHNOLOGY SPECIALISING IN INFORMATION TECHNOLOGY Sri Lanka Institute of Information Technology (SLIIT)

Website <https://www.sliit.lk/>

Website <https://cmb.ac.lk/>

2015 – 2018 Matugama, Sri Lanka

GENERAL CERTIFICATE OF EDUCATION ADVANCED LEVEL (G.C.E. A-LEVEL) C.W.W. Kannangara Central College

Website <https://cwwkcc.lk/>

SKILLS

Web Testing Framework: Selenium, Playwright | Programming Languages: Java, Python, Javascript | Test Tools: JMeter, Postman | Bug Tracking System: Jira | Database: MySQL, MongoDB | Version Control: Git, GitHub

PROJECTS

11/2023 – 10/2024

FIREWATCH: Wildfire Detection and Alert System

- Led a research project to develop an AI-powered system for early wildfire detection and efficient management, coordinating a team of 4 through regular meetings and presentations to ensure timely delivery while addressing wildfire challenges globally.
- Implemented YOLOv8 with thermal drone imagery for fire-affected area detection, achieving over 90% accuracy, and performed QA testing to validate detection reliability and fire spread prediction models, enhancing response strategies.
- Presented the research at the International Conference on Advances in Computing and Technology (ICACT), with the paper published in IEEE Xplore.

Tools and Technologies: TensorFlow, YOLOV8

Link <https://firewatchlk.org/>

10/2024 – 11/2024

TRACKMATE - IOT-Based Wearable Device for Rehabilitation Monitoring

- Led a team of 4 in designing and developing TRACKMATE, a wearable IoT device that monitors patients with walking disabilities, enhancing rehabilitation effectiveness.
- Engineered pedometer and fall detection algorithms using MPU9250 sensors and ESP32 C3 microcontrollers, achieving 95% accuracy and enabling real-time alerts via Firebase and MQTT.
- Developed quantized LSTM models with TensorFlow Lite for on-device inference, recognizing walking patterns with 96% accuracy, facilitating efficient edge computing.
- Implemented data validation and performance testing for LSTM models on-device, ensuring consistent walking pattern recognition under varying conditions.

Tools and Technologies: ESP32, TensorFlow Lite, MQTT, Firebase

Link <https://github.com/Sahan-Dulanjaya/TRACKMATE-IOT-Based-Wearable-Device-for-Rehabilitation-Monitoring>

REFERENCES

Dinith Gunasekara Senior QA Engineer

Calcey Technologies (Pvt) Ltd,
Trace Expert City,
AC19,
Colombo 10,
Sri Lanka.

Email dinithg@opusxenta.com | Phone (+94) 714699171

Chalani Pradeepika QA Engineer

Digital Mobility Solutions Lanka PLC,
MAGA One Tower,
Narahenpita - Nawala Rd,
Nugegoda 11222,
Sri Lanka.

Email chalani.pradeepika@pickme.lk | Phone (+94) 711788394