

SANDUNI BATUGEDARA

Associate Quality Assurance Engineer

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PROFILE SUMMARY

As an IT undergraduate with a strong foundation in software development and a keen interest in quality assurance, I am passionate about ensuring high standards in software performance and reliability. With a detail-oriented mindset and a commitment to continuous learning, I aim to contribute to delivering top-quality products while advancing my skills in testing methodologies and tools.

WORK EXPERIENCE

Trainee Software Engineer

Jan 2024 – Jul 2024

London Stock Exchange Group (LSEG)

- Contributed to enhancing chatbot performance through machine learning and re-ranking models.
- Developed evaluation matrices (Cosine Similarity, Semantic Similarity) to measure chatbot response accuracy.
- Researched and optimized chunking strategies for improved retrieval and response quality.
- Assisted in developing a tool to streamline QA processes by suggesting Gherkin feature file improvements using a trained LLM.

EDUCATION

Bachelor of Science (Honors) in Information Technology

2021 – Present

- University of Moratuwa, Faculty of Information Technology
- CGPA: 3.5

R/Ferguson High School

- Biology Stream | A/L Results: Biology - A, Chemistry - B, Physics - C (2019)

PROJECT AND RESEARCH

Stock Market Surveillance System (Ongoing Research)

- Developing a machine learning-based system to detect fraudulent activities in stock trading.
- Technologies: Python, Machine Learning Algorithms.

Library Management System (API Testing Focus)

- Created RESTful APIs for library management with role-based access control.
- Technologies: Playwright, Cucumber.

Automated Multicooker (Hardware Project)

- Designed an automated cooking system addressing gas shortages.
- Technologies: AVR-C, Atmega32, Proteus, KiCad, Blender.

Advertisement Display Platform (Second year Software Project)

- Built a platform for integrating advertisements into games.
- Technologies: ReactJS, NodeJS, Firebase.

Full-Stack Order Management System

- Developed a product renting system with payment reminders and payroll integration.
- Technologies: ReactJS, NodeJS, MySQL.

Review Paper: Artificial Intelligence and Machine Learning in Digital Forensics - A Survey

presented at the International Conference on Information Technology and Information Systems (ICTIS 2024), Bangkok, Thailand.

TECHNICAL SKILLS

- Testing Tools & Frameworks: Playwright, Selenium, Postman, Cucumber
 - Programming Languages: Python, Java, JavaScript, C
 - Web Development: ReactJS, NodeJS, Spring Boot
 - Database: MySQL, Firebase
 - Version Control: GitHub, Bitbucket, Stash
 - Cloud Platforms: AWS
 - Project Management Tools: Jira, Trello
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CERTIFICATIONS AND ACTIVITIES

- Panel Coordinator – Rotaract Club, University of Moratuwa (2023)
 - Participant – Hackmora 2023, IEEE Computer Society
 - Student Member – INTECS Club Coding Competition
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NON-TECHNICAL SKILLS

- People Leadership
 - Data Analysis
 - Budgeting
 - Strategic Planning
 - Regulatory Compliance
 - Long-Term Planning
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REFERENCES

- K A Dilini T Kulawansa

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