

# DAMIRU GAMAGE

## COMPUTER SCIENCE UNDERGRADUATE

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Motivated Computer Science undergraduate with hands-on experience in software testing, test case design, and defect reporting. Practical exposure to Selenium and Postman for web automation and API testing, along with experience working in Agile SDLC/STLC environments through academic and project work. Passionate about ensuring software quality and eager to contribute as a Software QA Intern.

### EDUCATION

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**BSc (Hons) in Computer Science**

**Jan 2023 – Present**

General Sir John Kotelawala Defence University - Rathmalana

### PROJECTS

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#### **Accident, Complaint & Certification Management System – Bio Foods (PVT) LTD**

QA Role (Group Project) | MERN Stack

- Designed and executed manual test cases for modules including accident reporting, complaint management, certification tracking, and procedure change requests.
- Performed functional and regression testing, ensuring system reliability across multiple workflows.
- Identified and documented software defects with clear reproduction steps, supporting faster bug resolution.
- Validated role-based access control, approval workflows, notifications, and report generation features.

#### **PlanTogether - A Multi-Organization Event Planning Platform**

React, TypeScript, Firebase, Jest

- Designed and executed manual test cases for features such as event creation, voting, RSVP tracking, and comments.
- Performed functional and regression testing across user roles and organization-based access.
- Validated authentication, role-based permissions, and real-time updates using Firebase.
- Executed unit tests using Jest and React Testing Library and documented defects across test cycles.

#### **Attend AI – Intelligent Attendance System**

Python, Flask, dlib, OpenCV

- Tested an AI-based attendance system using face recognition, liveness detection, and emotion detection.
- Designed and executed manual test cases for face detection, attendance marking, and email notification workflows.
- Performed functional and regression testing for real-time video streaming and recognition accuracy.
- Identified issues related to low-light detection and camera access, and verified fixes across testing cycles.

## **Bookstore Management System using Ontology & Multi-Agent Simulation**

Python, Owlready2, Mesa

- Tested ontology-based bookstore simulation with customer and employee agents.
- Designed test scenarios for browsing, purchasing, and automated inventory restocking.
- Validated SWRL rule reasoning and agent communication for system consistency.
- Identified and reported logic errors and simulation edge cases during GUI-based testing.

## **Selenium Test Automation Framework (Ongoing)**

Java, Selenium WebDriver, TestNG

- Building a test automation framework using Selenium and TestNG with the Page Object Model (POM) design pattern.
- Creating reusable wrapper methods and structured automation, application, and test layers.
- Executing automated tests via TestNG XML, with Extent Reports and screenshot capture for failed tests.

## **AREA OF EXPERTISE**

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- Testing: Manual Testing, Functional Testing, Regression Testing, Smoke Testing, Exploratory Testing, Black Box Testing
- QA Processes: SDLC, STLC, Agile & Scrum, Bug Life Cycle, Requirement Analysis, Test Planning, Test Execution Reporting
- Tools: Selenium (Basic), Postman, GitHub
- Programming: Python, Java, HTML, CSS, JavaScript, React
- Database: MySQL, Firebase
- Cloud: AWS (Basic)

## **CERTIFICATIONS**

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- Foundations of Software Testing and Validation – University of Leeds
- Learn Automation Testing with Java and Selenium WebDriver Specialization – Packt
- Postman API Fundamentals Student Expert – Postman
- Java Programming for Beginners – IBM
- Advanced Java Concepts and Collections – Packt
- Object-Oriented Programming and Java Fundamentals – Packt
- Database Structures and Management with MySQL – Meta
- AWS Cloud Technical Essentials – Amazon Web Services
- Version Control – Meta
- React – Meta
- CCNA: Introduction to Networks – Cisco
- Programming with JavaScript – Meta
- Diploma in IT - Esoft Metro Campus

## **COMPETITIONS**

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- Finalist – CryptX 1.0 Hackathon, University of Sri Jayewardenepura (2025)
- 3rd Place – ByteBlitz Mini Hackathon, General Sir John Kotelawala Defence University(2024)
- Finalist – Cypher 3.0 Data Security Hackathon, General Sir John Kotelawala Defence University(2025)